# Mathematics 7-12

materials recommended by Manitoba Mathematics Teachers

(Current to December, 1987)

**Manitoba**
**Education**
Instructional
Resources

88-05448/

# Mathematics 7-12

materials recommended by Manitoba Mathematics Teachers

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## ACKNOWLEDGEMENTS

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|---|---|
| Lana Rinn<br>Transcona-Springfield<br><br>Kam Srikameswaran<br>Brandon University | Reviewed and researched materials for inclusion in this document |
| Betty Seidel | Library Staff |
| Peter Luba | Consultant |

## FOREWORD

This review of print and non-print materials for secondary school mathematics was conducted in order to assist teachers with their selection of resources for classroom use.

This review was done with those materials which were available during the period of review and does not include materials acquired after April, 1987.

The reviewers appreciate and thank the more than 160 teachers responding to the request for names of their own resources enabling us to include the list for the benefit of their colleagues.

Resources within this document marked with an asterisk have been recommended by teachers.

## NOTICE TO USERS

THE TABLE OF CONTENTS INDICATES THREE CATEGORIES

1. The general section provides a list of materials for teacher information and student enrichment.

2. The specific levels section provides a list of essentially textual and monographic materials for each grade or course.

3. The appendices provide a list of materials which have not been specifically reviewed in this document but may be of use to teachers. The teacher supplementary list of Appendix D shows materials used by one or more teachers which were not available in the library at time of printing.

4. In all sections the code for level and target audiences is T-teacher, S-student and G-general.

## HOW TO ACQUIRE THE RESOURCES LISTED

To acquire a dub of a videorecording, complete the Dubbing Request Form available in your school, and clearly indicate the Program Title and Library Dubbing Number. For dubbing information, call 945-7848 or (Toll Free) 1-800-282-8069 and ask for extension 7848. Note that there is a $2.00 per tape dubbing charge. Dubbing requests should be addressed to:

Dubbing Service
Manitoba Education Library
Box 4, 1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

To borrow a videorecording, kit, or book listed, cite the Title and Call Number, and, for videorecordings clearly indicate the format wanted. For additional information, call 945-5371 or (Toll Free) 1-800-282-8069 and request extension 5371. Requests for the loan of items should be addressed to:

Circulation and Reference Services
Manitoba Education Library
Box 3, 1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

To book a videorecording or film, listed as available for booking, the Book Number and your Client Number must be provided. Call 945-7849 or (Toll Free) 1-800-592-7330 or write to:

Film/Video Booking
Manitoba Education Library
Box 2, 1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

### Library Hours

September - May

| | |
|---|---|
| Monday-Thursday | 8:30 a.m.-9:00 p.m. |
| Friday | 8:30 a.m.-5:00 p.m. |
| Saturday | 9:00 a.m.-4:00 p.m. |

June - August

| | |
|---|---|
| Monday-Friday | 8:30-4:30 p.m. |
| Saturdays & Evenings | CLOSED |

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## TEACHER ORIENTED MATERIALS

Materials in this section are identified for teacher enrichment and indirect use in the classroom. Contents of these materials include historical, philosophical and conceptual types.

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>A3r | Adler, L. (Editor)<br>Readings in Mathematics: Book 2, Ginn, Lexington, MA. 1972.<br>COMMENTS: Stimulating resource for teachers. Will help in relating math to life in a meaningful way. Motivating information. | G | T | | | | X |
| 512.712<br>M38U | Advanced Mathematics 305, Manitoba Education, Winnipeg, MB., 1987.<br>COMMENTS: The interim guide for the optional half credit course. | 305 | T | | | | |
| 510.712<br>A36 | Aichele, Douglas B.<br>Readings in Secondary School Mathematics, Prindle Weber, Schmidt, Boston, 1971.<br>COMMENTS: Exploration of different aspects of mathematics education issues and trends of the 70's. | G | T | | | | X |
| 510.7<br>A55 | Ailles, Douglas S. (et al)<br>Arithmetic & Algebra in the Schools, Recommendations for Return to Reality, Ontario Institute for Studies in Education, Curriculum Series 15, Toronto, 1973.<br>COMMENTS: Position paper with recommendations for math curricula. | G | T | | | | X |
| 510.71073<br>N35 | An Agenda for Action, National Council of Teachers of Mathematics, Reston, VA, 1980.<br>COMMENTS: Recommendations of the professional organization. | G | T | | | | X |
| 510.7<br>N3<br>v. 41 | Application in School Mathematics, National Council of Teachers of Mathematics, Reston, VA, 1979.<br>COMMENTS: 1979 Yearbook. | G | T | | | | |
| 512.7<br>A9 | Auslander, L.<br>What Are Numbers, Scott, Foresman & Co., IL, 1969.<br>COMMENTS: College material, abstract, formal. Marginal use. | G | T | | | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.710713<br>B32 | Babin, Patrick<br>Recommendations for Intermediate Division Math in Ontario, Ontario Government Book Store, Toronto, 1976.<br>COMMENTS: Curriculum planning materials. Not for immediate classroom use. Useful for research. | G | T | | | | X |
| 510.9<br>Ba | Ball, W. and Rouse, W.<br>A Short Account of the History of Mathematics, Dover NY, 1960.<br>COMMENTS: An unaltered version of a 1908 edition. Style can be tedious but informational. | G | T | | | | X |
| 510.712<br>B3 | Bassler, Otto C.<br>Learning to Teach Secondary School Mathematics, Intext, Educational Publishers, Scranton, OH, 1971.<br>COMMENTS: A general resource on methodologies. | G | T | | | | X |
| 510<br>B43 | Beck, Anatole (et al)<br>Excursions Into Mathematics, Worth, NY, 1969.<br>COMMENTS: Each chapter explores the theory surrounding an area of mathematical interest. | G | T | | | | X |
| 510.712<br>B44 | Bell, Frederick H.<br>Teaching and Learning Mathematics in Secondary Schools, Wm. C. Brown, Dubuque, IA, 1978.<br>COMMENTS: Learning theory is applied to methodologies for the classroom teacher. An extensive bibiliography is included. | G | T | | X | | X |
| 510.171<br>B45 | Beltznen, Klaus P.<br>Mathematical Sciences in Canada, Science Council of Canada: Background Study #37, 1976.<br>COMMENTS: Informational resource for teachers. A study of status Mathematics Education. | G | T | | | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.78<br>B48 | Bestgen, Barbara and Ray, Robert<br>Films in the Math Classroom, National Council of Teachers of Mathematics, VA, 1982.<br>COMMENTS: Brief discussion of use of math films and reviews of 230 films in a variety of areas. Teacher resource of value. | G | T | | | | X |
| 510<br>B56 | Blohm, Hans<br>Pebbles to Computers: The Thread, Oxford University Press, NY, 1986.<br>COMMENTS: Reader for students. Teacher resource for historical and developmental information. Motivational. | G | T/S | | | | X |
| 512.007<br>C35 | Call, Russell J.<br>Teaching Algebra Today, J. Weston Walch, Portland, ME, 1966.<br>COMMENTS: Some practices and methods that teachers use in algebra. | G | T | | | | |
| 510.712<br>C66 | Cooney, Thomas J., (et al)<br>Dynamics of Teaching Secondary School Mathematics, Houghton-Mifflin, Boston, 1975.<br>COMMENTS: A general resource on methodology for secondary mathematics. | G | T | | | | |
| 516.2<br>C65 | Collier, Charles Patrick<br>Geometry for Teachers, Houghton-Mifflin, Boston, 1976.<br>COMMENTS: A discussion of non-traditional topics in geometry. | G | T | | | | X |
| 510.7<br>T43 | Crosswhite, F. Joe (et al)<br>Teaching Mathematics: Psychological Foundation, Charles James Publishing, Columbus, OH, 1973.<br>COMMENTS: Articles on learning processes by authorities: academic; could be useful for the classroom. | G | T | | | | |
| 512<br>Da | Dantzing, Tobias<br>Number: The Language of Science, Doubleday, NY, 1954.<br>COMMENTS: An account of the evolution of number concept. | G | T | | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.71073<br>E38 | Education in the 80's: Mathematics, National Education Association, 1982.<br>COMMENTS: Provides a focus on some vital questions and issues of the 80's. | G | T | | | | |
| 510.7<br>E1 | Ellis, John P.<br>The Theory & Operation of the Slide Rule, Dover, NY, 1961.<br>COMMENTS: A comprehensive discussion of slide rule operation. | G | T | | | | |
| 510.7<br>N3<br>V. 27 | Enrichment Mathematics for the Grades, National Council of Teachers of Mathematics, Reston, VA, 1963.<br>COMMENTS: 1963 Yearbook; section for elementary and junior high. | G | T | | | | X |
| 510.7<br>N3<br>V. 28 | Enrichment Mathematics for High School, National Council of Teachers of Mathematics, Reston, VA, 1963.<br>COMMENTS: 1963 Yearbook. | G | T | | | | X |
| 510.7<br>N3<br>V. 26 | Evaluation in Mathematics, National Council of Teachers of Mathematics Reston, VA, 1961.<br>COMMENTS: 1961 Yearbook. | G | T | | | | |
| 510<br>K43 | Fekete, I.<br>Mathematics: The World of Science, Facts on File Publication, NY, 1984.<br>COMMENTS: Student reader, elementary, some value historically. | G | T/S | | | | X |
| 510.71073<br>M39 | Fennema, E., ed.<br>Mathematics Education Research, Association for Supervision and Curriculum Development, VA, 1981.<br>COMMENTS: Evaluation and assessment information. Good resource for teacher information. | G | T | | | | X |
| 512.1<br>F55 | Filippone, S. R.<br>Elementary Mathematics: A Fundamentals & Techniques Approach, Houghton-Mifflin, Boston, 1976.<br>COMMENTS: Teacher enrichment: conceptual approach to junior high mathematics. Some high school topics. Some classroom use possible. | G | T | X | | X | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.71<br>F68 | Fox, L., (et al)<br>Women and Mathematics: Research Perspectives for Change, National Institute of Education, WA, 1977.<br>COMMENTS: Three research papers which explore the reasons for and implication of sex differences in mathematics achievement with recommendations. | G | T | | | | X |
| 510.7<br>N3<br>V. 36 | Geometry in the Mathematics Curriculum, National Council of Teachers of Mathematics, Reston, VA, 1973.<br>COMMENTS: 1973 Yearbook includes contemporary views. | G | T | | | | X |
| 516.007<br>05 | Geometry: Kindergarten to Grade Thirteen, Ontario Institute for Studies in Education, Toronto, 1967.<br>COMMENTS: Curriculum study report, probably outdated. Some historical value and academic interest. | G | T | | | | X |
| 510.76<br>G53 | Giel, Othow<br>A Study of the Ability of a Group of Grade XII Students to Solve Real Work Problems.<br>COMMENTS: A Masters' Thesis. 1983. | | T | | | | |
| 510.7<br>N3<br>V. 24 | The Growth of Mathematical Ideas, National Council of Teachers of Mathematics, Reston, VA, 1959.<br>COMMENTS: 1959 Yearbook. | G | T | | | | |
| 510.28<br>H3 | Harris, Charles Overton<br>Slide Rule Simplified, American Technical Society, Chicago, 1972. | G | | | | | |
| 512.009<br>H5 | Historical Topics in Algebra, National Council of Teachers of Mathematics, Reston, VA, 1971.<br>COMMENTS: Taken from the 31st Yearbook of NCTM. | G | T | | | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.7<br>N3<br>V. 31 | Historical Topics for the Mathematics Classroom, National Council of Teachers of Mathematics, Reston, VA, 1969.<br>COMMENTS: 1969 Yearbook. | G | T | | | | X |
| 510.71<br>H69 | How to Evaluate Your Mathematics Program, National Council of Teachers of Mathematics, Reston, VA, 1981.<br>COMMENTS: Checklist to help you evaluate your program. | G | T | | | | |
| 510.71<br>157 | An Inservice Handbook for Mathematics Education, National Council of Teachers of Mathematics, Reston, VA, 1977.<br>COMMENTS: Readings to help in the planning of inservice activities. | G | T | | | | X |
| 510.7<br>N3<br>V. 34 | Instructional Aids in Mathematics, National Council of Teachers of Mathematics, Reston, VA, 1971.<br>COMMENTS: 1971 Yearbook. Includes ideas for print and non-print aids. | G | T | | | | X |
| 512.007<br>158 | Integers and Combining Like Terms in Algebra, Manitoba Education, Winnipeg, MB., 1986.<br>COMMENTS: Reproducible overhead masters for use in teaching integers. These materials were used in the series of workshops sponsored by Manitoba Education. | 8-10 | T | | X | | X |
| 510.07<br>In | Intermediate Mathematics Methodology, Ontario Institute for Studies in Education, Toronto, 1968.<br>COMMENTS: Comprehensive monograph of practical use to the teacher. Some sections may be out-of-date, examples are at junior high level. | 7-9 | T | | | | |
| 510.79<br>J63 | Johnson, David R.<br>Mathematics Contests: A Handbook for Mathematics Educators, National Council of Teachers of Mathematics, Reston, VA, 1982.<br>COMMENTS: Organizing and listing of existing math contents. | G | T | | | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.7<br>Jo | Johnson, Donovan A.<br>Logic and Researching in Mathematics, McGraw-Hill, St. Louis, MI. 1963.<br>COMMENTS: Monograph of a fundamental approach in problem solving methodology. | 7-9 | T | X | | | X |
| 510.710712<br>J63 | Johnson, Wayne A.<br>The Effect of Topics in Mathematics 305 on First Year University Mathematics Achievement.<br>COMMENTS: Masters' Thesis. 1978. | G | T | | | | |
| 510.7<br>05<br>V. 1 | K-13 Math: Some Non-Geometric Aspects: Part 1, Ontario Institute for Studies in Education, Curriculum Series #6, Toronto, 1971.<br>COMMENTS: Discussion of statistics and probability curriculum development and methodology. | G | T | | | | X |
| 510.7<br>05<br>V. 2 | K-13 Math: Non-Geometric Aspects: Part II, Ontario Institute for Studies in Education: Curriculum Series #11, Toronto, 1971.<br>COMMENTS: Computing logic and problem solving methodology and curriculum development. | G | T | | | | X |
| 510<br>K42 | Keedy, M. L.<br>Essential Mathematics: A Modern Approach, Addison-Wesley, Reading, MS.<br>COMMENTS: Workbook type format. Self instructional. Comprehensive coverage of math - essentially for grade 8 and up. | G | S | | | X | |
| 510.71<br>K5 | Kidd, K. P., (et al)<br>The Laboratory Approach to Mathematics, Science Research Associates, OH, 1970.<br>COMMENTS: Teacher resource. Organizing activities for mathematics learning. Some areas outdated for junior high. | G | T | X | X | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.9<br>K5 | Kline, Morris<br>Mathematical Thought From Ancient to Modern Times, Oxford University Press, NY, 1972.<br>COMMENTS: Historical, authoritative. Later chapters too advanced for school use. | G | T | | | | |
| 510<br>K1 | Kline, Morris<br>Mathematics: A Cultural Approach, Addison-Wesley, Reading, MS, 1962.<br>COMMENTS: A discussion of how mathematics has developed from man's efforts to understand nature. | G | T | | | | X |
| 510<br>M35 | Kline, Morris<br>Mathematics: An Introduction to Its Spirit & Use, Wilt Freeman, San Francisco, 1979.<br>COMMENTS: Articles from Scientific American Magazine. | G | T | X | | | X |
| 510<br>Ko | Korner, Stephen<br>The Philosophy of Mathematics: An Introduction, Harper Row, NY, 1960. | G | T | | | | X |
| 510.9<br>Kr | Kramer, Edna E.<br>The Main Stream of Mathematics, Oxford University Press, NY, 1955.<br>COMMENTS: Anecdotal, historical and interesting. | G | T | | | | X |
| 510<br>La | Land, Frank<br>The Language of Mathematics, Doubleday, NY, 1963.<br>COMMENTS: A discussion of the place of mathematics in the physical world. | G | X | | | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.7<br>N3<br>V. 21 | The Learning of Mathematics: Its Theory & Practices, National Council of Teachers of Mathematics, Reston, VA, 1953.<br>COMMENTS: 1953 Yearbook. | G | T | | | | |
| 510.71<br>L48 | Lesson Plans in Mathematics for Grades VI, VII, VIII, Department of Education, Winnipeg, MB, 1977.<br>COMMENTS: Purpose: material, presentation, and follow-up. Ideas in instructional methodology. | 7-8 | T | | X | | |
| 510<br>L5 | Linderholm, Carl E.<br>Mathematics Made Difficult, World, NY, 1972.<br>COMMENTS: An amusing attack on the simplicity of math. Good summer reading. | G | T | | | | X |
| 510.71073<br>M38 | Mathematics of Education, National Society for the State of Education, 1970.<br>COMMENTS: The 69th Yearbook of NSSE that discusses the "NEW MATH" wave of the 70's. | G | T | | | | |
| 510.7<br>N3<br>V. 38 | Measurement in School Mathematics, National Council of Teachers of Mathematics, Reston, VA, 1976.<br>COMMENTS: 1976 Yearbook topics include selected measurement activiti activities and resources for teaching. | G | T | | | | |
| 510.712<br>M44 | Melnyk, Edward Anthony<br>The effect of bi-monthly student teacher conferences on attitude toward and achievement in mathematics.<br>COMMENTS: Masters' Thesis. 1980. | G | T | | | | X |
| 510.7<br>N3<br>V. 39 | Organizing for Mathematics Instruction, National Council of Teachers of Mathematics, Reston, VA, 1977.<br>COMMENTS: 1977 Yearbook: Individualized instruction, group based approaches are among the topics. | G | T | | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.23<br>P47 | Peterson, John C. and Peterson, Marla P.<br>Career Education & Mathematics, Houghton-Mifflin, Boston, 1975.<br>COMMENTS: A monograph concerned with career education and the mathematics curriculum, aims, assumptions and reasons for being. | G | T | | | | |
| 510.7<br>Po | Polya, G.<br>How to Solve It: A New Aspect of Mathematical Method, Doubleday, NY.<br>COMMENTS: Monograph on problem solving. Details of method and philosophy. | G | T | X | | | |
| 510<br>Po<br>V. 1 | Polya, George<br>Mathematical Discovery; On Understanding, Learning & Teaching Problem Solving, John Wiley & Sons, NY, 1962.<br>COMMENTS: A heuristic approach to problem solving. | G | T | X | | | |
| 510<br>Po<br>V. 2 | Polya, George<br>Mathematical Discovery; On Understanding, Learning & Teaching Problem Solving, John Wiley & Sons, NY, 1962<br>COMMENTS: A heuristic approach to problem solving. | G | T | X | | | |
| 510.71073<br>C43 | Price, J. & Gawronski, J.<br>Changing School Mathematics: A Responsive Process, National Council of Teachers of Mathematics, Reston, VA, 1981.<br>COMMENTS: Curriculum planning and change. Research use. | G | T | | | | |
| 510.7073<br>N38 | Priorities in School Mathematics, National Council of Teachers of Mathematics, Reston, VA, 1981.<br>COMMENTS: A compliment to the "Agenda for Action" when considering revision of curricula. | G | T | | | | X |
| 510.71071<br>P76 | Provincial Mathematics Programs in Canada as of 1978-79, Council of Ministers of Education, Halifax, 1979. | | | | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>R43 | Reeves, C. A. & Clark<br>Mathematics for Teachers: Problem Solving and Other Basic Skills, Scott, Foresman Co., IL, 1982.<br>COMMENTS: Teacher resource of some value for number theory, geometry and statistics. | G | T | X | | | |
| 510.7<br>Na | The Revolution in School Mathematics, National Council of Teachers of Mathematics, Reston, VA, 1961.<br>COMMENTS: Historical document. Philosophical perspectives on curriculum change for research use, does not reflect current curriculum thinking. | G | T | | | | X |
| 510<br>S36 | Sawyer, W. W.<br>Mathematician's Delight, Penquin, Baltimore, 1943.<br>COMMENTS: W. W. Sawyer's attempt to dispel the fear of mathematics. | G | T | | | | X |
| 510<br>Sa | Sawyer, W. W.<br>A Path to Modern Mathematics, Penquin, Middlesex, England, 1966.<br>COMMENTS: A discussion of a number of mathematics topics. | G | T | | | | |
| 510<br>Sa | Sawyer, W. W.<br>Prelude to Mathematics, Penquin, Baltimore, 1963.<br>COMMENTS: Interesting discussion of the essence of mathematics. | G | T | | | | |
| 510.712<br>S36 | Scopes, P. G.<br>Mathematics in Secondary Schools - A Teaching Approach, Cambridge, University Press, London, 1973.<br>COMMENTS: A general resource in teaching methodology Include a chapter on evaluation procedures. | G | T | | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.71<br>R48 | Shumway, R.<br>Research in Mathematics Education, National Council of Teachers of Mathematics, Reston, VA, 1980.<br>COMMENTS: Includes case studies and bilbiographic references. | G | T | | | | |
| 510.7<br>N3<br>V. 35 | The Slow Learner in Mathematics, National Council of Teachers of Mathematics, Reston, VA, 1972.<br>COMMENTS: 1972 Yearbook. Includes Aids and Activities Chapter. | G | T | | X | | |
| 510.9<br>Sm<br>V. 1 | Smith, David Eugene<br>History of Mathematics: Vol 1, Dover, NY, 1953.<br>COMMENTS: Historical comprehensive material on elementary math. Teacher enrichment of some use in the classroom. | G | T | | | | X |
| 510.712<br>M38u | Statistics and Probability 305, Manitoba Education, Winnipeg, MB, 1986<br>COMMENTS: The Interim Guide for the optional half credit course. | 305 | T | | | | |
| 510.7<br>N3<br>V. 33 | The Teaching of Secondary Mathematics, National Council of Teachers of Mathematics, Reston, VA, 1970.<br>COMMENTS: 1970 Yearbook. | G | T | | | | |
| 510.7<br>T63 | Tobias, Sheila<br>Overcoming Math Anxiety, W. W. Norton, NY, 1978.<br>COMMENTS: An analysis of mathematics anxiety and recommendations. | G | T | | | | |
| 510<br>V36<br>V. 1 | Vanatta and Stoeckinger<br>Mathematics, Essentials & Application: Teacher Guide, Charles Merrill, OH, 1980.<br>COMMENTS: Teacher resource of hints, answers and notes. American content. Covers some areas beyond Grade 7. | 7 | T | X | | X | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>V36<br>V. 2 | Vanatta and Stoeckinger<br>Mathematics, Essentials & Application: Teacher Guide, Charles Merrill, OH, 1980.<br>COMMENTS: Teacher resource of hints, answers and notes. American content. Covers some areas beyond Grade 7. | 7 | T | X | | X | X |
| 516.4<br>V39<br>V. 1 | Vaughan, H. E. & Szabo, S.<br>A Vector Approach to Euclidean Geometry: Volume 1, MacMillan, NY. 1971.<br>COMMENTS: Formal, abstract, college level text. Not for schools. | G | T | | | | X |
| 516.4<br>V39<br>V. 2 | Vaughan, H. E. & Szabo, S.<br>A Vector Approach to Euclidean Geometry: Volume 2, MacMillan, NY, 1971.<br>COMMENTS: Formal, abstract, college level text. Not for schools. | G | T | | | | X |
| 510<br>Ve | Vergara, W.<br>Mathematics in Everyday Things, Harper-Row, NY, 1959.<br>COMMENTS: How mathematics unravels everyday phenomena. Presented in question and answer form. | G | T | | | | X |
| 510<br>Wh | Whitehead, A. N.<br>An Introduction to Mathematics, Oxford University Press, NY, 1959.<br>COMMENTS: Teacher resource for understanding some useful concepts in mathematics. Aimed at high school level. motivational. | G | T | | | | X |

## STUDENT ORIENTED MATERIALS

Materials identified for direct teacher use - in part, or whole, in the classroom.

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>A3 | Adler, Irving<br>The New Mathematics, John Day, NY, 1958.<br>COMMENTS: Teacher resource in number theory and some advanced math. Motivational information to help with classroom teaching. Abstract. | G | T | | | | X |
| 510.78<br>Ad | Adler, Irving<br>Thinking Machines, John Day, NY, 1961.<br>COMMENTS: Outdated but chapters on Boolean Algebra and Binary Numbers useable. Elementary teacher resource. | G | T | | | | X |
| 513<br>Am | Amir-Moez, Ali R.<br>Ruler, Compass & Fun, Ginn, Boston, MA, 1966.<br>COMMENTS: Geometric constructions. Enrichment material, Useable in classroom, Concrete. | 7-9 | T/S | X | | | X |
| 512<br>As | Asimov, Isaac<br>Realm of Algebra, Houghton-Mifflin, Boston, MA, 1961.<br>COMMENTS: An exploration of algebraic concepts written in informal style. | G | T | | | | X |
| 510<br>As | Asimov, Isaac<br>Realm of Numbers, Houghton-Mifflin, Boston, MA, 1959.<br>COMMENTS: Teacher resource in number theory. Motivational information to help teaching. Related to real life. | G | T | | | | X |
| 510<br>Ba | Bakst, Aaron<br>Mathematics, Its Magic and Mastery, D. Van Nostrand, Princeton, NJ, 1952, 2nd Edition.<br>COMMENTS: Teacher resource for a broad range of areas such as numbers, algebra and geometry. Useful information for teaching. | G | T | X | | X | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 513.83<br>B37 | Barr, Stephen<br>Experiments in Topology, Thomas V. Crowell, NY, 1964.<br>COMMENTS: Constructions of various topological models with explanations. | G | T | | | | X |
| 510.09<br>B45 | Bell, Eric Temple<br>The Development of Mathematics, McGraw-Hill, NY, 1945.<br>COMMENTS: Historical material: Detailed and interesting for teacher use in classroom. Some advanced concepts not relevant. | G | T | | | | X |
| 510.03<br>B45 | Bendick, J. & Levin, M.<br>Mathematics Illustrated Dictionary, McGraw-Hill, NY, 1965.<br>COMMENTS: Definition of time and short descriptions of several mathematicians. | G | T | | | | |
| 510<br>Be | Bergamini, David<br>Mathematics, Life Science Library, Time Inc., NY, 1963<br>COMMENTS: Historical resource. Broad range of mathematics. For teacher use. Information for classroom use. Related to real life. | G | T | | | | X |
| 510<br>Bo | Boehm, George A. W.<br>The New World of Math, Dial Press, NY, 1959.<br>COMMENTS: Marginally useful resource for teachers. Some items within grade 7 - 9 range. Motivational information. | G | T | | | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICHMENT |
|---|---|---|---|---|---|---|---|
| 510.212<br>B87 | Burlington, R. S.<br>Handbook of Mathematical Tables and Formulas, McGraw-Hill, NY, 1973.<br>COMMENTS: Forgotten your favourite math formula? It's probably in this book! | G | | | | | |
| 510<br>C34 | Cadwell, James Henry<br>Topics in Recreational Mathematics, Cambridge University Press, Cambridge, 1966<br>COMMENTS: Contains some unusual examples of interest to teachers of higher level mathematics. | G | T | | | | X |
| 512.1<br>C35 | Callahan, J., (et al)<br>Modern Elementary Mathematics: A Laboratory Approach, Xerox College Publication, Lexington, MA, 1972.<br>COMMENTS: Hands-on activities to help introduce various topics, e.g. vectors and transformations. | G | T | | | | X |
| *372.72<br>C53 | Clack, A. and Leitch, C. H.<br>Amusements in Developing Algebra Skills, Vol 1, Midwest publications, Pacific Grove, CA, 1975.<br>COMMENTS: Reproducible Puzzles in Basic Algebra, Worksheets. | 100<br>(9) | T | | X | X | |
| 510.212<br>C73<br>V/7 | CRC standard mathematical tables, The Chemical Rubber Co., Boca Raton, FL, 1969.<br>COMMENTS: Handbook of use for high school teachers for formulas in mensuration, algebra, geometry, and units of measurement. | | T | | | | |
| 510.78<br>Cu | Cundy, H. M. and Rellert, A. P.<br>Mathematical Models, Oxford University Press, London, 1961.<br>COMMENTS: Detailed instruction for making a wide variety of models for illustrating mathematics. Concrete. | G | T | | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 511<br>Da | Davis, Philip J.<br>The Lore of Large Numbers, Random House, NY, 1961.<br>COMMENTS: Monograph: Some interesting items for possible use in the classroom. Limited use. Related to real life. | G | T | X | | X | X |
| 510.2<br>D49 | Dewdney, A. K.<br>The Planiverse. Computer contact with a two-dimensional world. McLelland and Stewart, Toronto, 1984.<br>COMMENTS: Teacher Resource for stimulating conceptual thinking. Good project material. | G | T | | | | X |
| 510.7<br>Di | Diever, Z. P.<br>An Experimental Study of Mathematics - Learning, Hutchinson of London, London, 1964.<br>COMMENTS: Nonstandard techniques for teaching math. Games, puzzles, kits, overheads, teach difficult concepts both elementary and advanced. Unusual but fascinating. Both concrete and abstract. Related to real life. | G | T | | | | X |
| 513<br>Di | Diggins, Julia F.<br>String, straightedge and shadow; the story of geometry, The Viking Press, NY, 1965.<br>COMMENTS: Reader on geometry: Historical and Motivational use in the classroom. | 7-9 | | | | | |
| 510.9<br>Ev | Eves, Howard W.<br>An Introduction to the History of Mathematics, Holt, Rinehart & Winston, NY, 1968.<br>COMMENTS: Brief, factual and biographical. Sections on problem studies are advanced concepts but interesting enrichment projects. Bibliography and chronology. Teacher enrichment. | G | T | | | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.02<br>E94<br>V. 1 | Eves, Howard W.<br>In Mathematical Circles, Vol 1, Prindle, Weber, Schmidt, Boston, WA, 1969.<br>COMMENTS: Volume of anecdotes and stories by the editor of "Historically Speaking" section of the "Mathematics Teacher". | G | T | | | | X |
| 510.02<br>E94<br>V. 2 | Eves, Howard W.<br>In Mathematical Circles, Vol 2, Prindle, Weber, Schmidt, Boston, 1969.<br>COMMENTS: Volume of anecdotes and stories by the editor of "Historically Speaking" section of the "Mathematics Teacher". | G | T | | | | X |
| 510.2<br>E9 | Eves, Howard W.<br>Mathematical Circles Revised, Prindle, Weber & Schmidt, Boston, WA, 1971.<br>COMMENTS: 360 more stories and problems. | G | T | | | | X |
| 512.74<br>E88 | Ewen, Barce<br>Base-X Arithmetic, McClelland and Stewart, Toronto, 1970.<br>COMMENTS: Monograph: Operations with numbers of different bases. Of some period use at the junior high level. Teacher resource. | G | T | | | | X |
| K<br>510.76<br>F73 | Fraser, Don<br>Newspaper math, Collier Macmillan, Don Mills, 1980.<br>COMMENTS: Actual newspaper articles with math questions following. Reading level grade 5-6. Teaching ideas and strategies included. Worksheets. | 7-9 | | | | | |
| 510<br>F74 | Fraser, Don<br>Power Play!: A Hockey Math Book, Collier Macmillan, Don Mills, 1978.<br>COMMENTS: Arithmetic applications for hockey enthusiasts. | 7+ | | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.9<br>Fr | Freebury, H. A.<br>A History of Mathematics for Secondary Schools, Cassel & Co. Ltd., London, 1958.<br>COMMENTS: Simpler biographical and historical sketches for classroom use as motivator. Both for junior high and secondary schools. Related to real life. | G | T | | | | X |
| 511<br>F75 | Friend, J. A. N.<br>Numbers: Fun & Facts, Charles Scribner's Sons, NY, 1954.<br>COMMENTS: Interesting historical notes and problems on numbers and number theory. Probably for use in grade 6-9 classroom. For motivational use in the classroom. Related to real life. | G | T | X | X | X | X |
| 510<br>Ga | Gardner, Martin<br>Mathematical Puzzles, Thomas Y. Crowell, NY, 1961.<br>COMMENTS: 30-40 puzzles by the puzzle king. | G | T | X | X | S | X |
| 510.02<br>V05 | Gellert, W.<br>The VNR Concise Encyclopedia of Mathematics, Van Nostrand Reinhold, NY, 1975.<br>COMMENTS: Compact storehouse of information on mathematics topics. | G | | | | | |
| 510<br>J6 | Glenn, W. and Johnson, D.<br>Exploring Mathematics on Your Own, Dover, NY, 1972.<br>COMMENTS: Activities and problems in topology, number system and patterns. | G | | | X | X | X |
| 510<br>Gr | Graham, L. A.<br>Ingenious Mathematical Problems & Methods, Dover, NY, 1959.<br>COMMENTS: One hundred problems to challenge senior students. Complete with solutions. | G | T/S | | | X | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>G74 | Greenes, C. E., (et al)<br>Problem-Mathics, Creative Publications, Palo Alto, CA, 1977.<br>COMMENTS: Twenty-five problems in all areas of Math. Strategies are discussed. Worksheets. | G | T | X | | | X |
| *K<br>510<br>T42<br>V. AA | Greenes, C. E., (et al)<br>Techniques of Problem Solving: Problem Deck AA, Dale Seymour Publications, CA, 1980.<br>COMMENTS: Kit: Problems on cards for handout; game strategies; evaluation schemes, answers outlined in teacher commentary book: Drill Practice with positive reinforcement. Number geometry, statistics. Convenient for use. | 8 | T/S | X | X | X | |
| *K<br>510<br>T42<br>V. BB | Greenes, C. E., (et al)<br>Techniques of Problem Solving: Problem Deck BB, Dale Seymour Publication, CA, 1980.<br>COMMENTS: Exercises. Kit: Problems on cards for handout; game strategies; evaluation schemes, answers outlined in teacher commentary book: Drill Practice with positive reinforcement. Numbers geometry, statistics. Convenient for use. | | | | | | |
| 510.7<br>M38 | Hamilton, C.<br>Mathematical Games, Department of Education, Winnipeg, Man., 1979.<br>COMMENTS: Teacher Resource: Motivational activities for classroom use. Covers several areas of junior high mathematics. Concrete. Related to life. | 7-9 | T | | X | | X |
| 510.76<br>H55 | Hill, Thomas J.<br>Mathematical Challenges II, Plus Six, National Council of Teachers of Mathematics, Reston, VA, 1974.<br>COMMENTS: Selected problems from "Mathematics Students" Journal. | G | T | X | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| K<br>513.26<br>F73 | Hillman, I.<br>Fractional Number Computations, Math Audio Response Inc., NY, 1974.<br>COMMENTS: Kit: Individualized learning system. Diagnostic, Prescriptive Lessons Evaluation, Practice materials in reproducible form. Lesson and Evaluations on cassette tape and study guide. Well organized. Single topic. Large case for carrying. Not all topics covered in the set. Remedial use. | 7 | T/S | X | | X | |
| K<br>513.26<br>158 | Hillman, I.<br>Introduction to Fraction Concepts, Math Audio Response System, Miller-Brody Productions Inc., NY, 1974.<br>COMMENTS: Kit: Individualized learning system. Diagnostic, Prescriptive Lessons Evaluation, Practice materials in reproducible form: Lessons and Evaluation on cassette tapes and guide. Well organized. Single topic. Large size case for carrying. Not all topics in the set. Remedial use. | 7 | T/S | X | | X | |
| K<br>512.7<br>N87 | Hillman, I.<br>Number & Numeration, Math Audio Response System, Miller-Brody Productions, Inc., NY, 1974.<br>COMMENTS: Kit: Individualized learning system. Diagnostic, Prescriptive Lessons Evaluations. Practice materials in reproducible form: Lesson & evaluation on cassette tape & guide. Well organized. Single topic. Large size case for carrying. Not all topics covered in the set. Remedial use. | 7 | T/S | X | | X | |
| 510<br>Ho | Hogben, Lancelot<br>Mathematics for the Million, W. W. Horton, NY, 1962.<br>COMMENTS: An interesting historical account of how mathematics through the ages have solved problems. Useful for motivation and enrichment. Exercises. | G | T | | | X | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICHMENT |
|---|---|---|---|---|---|---|---|
| 510.9<br>Ho | Hogben, Lancelot T.<br>Mathematics in the Making, Doubleday, NY, 1960.<br>COMMENTS: Historical, pictorial, secondary school level. Classroom motivator information. Interesting. | G | T | | | | X |
| 510.09<br>H6 | Hogben, Lancelot T.<br>The Wonderful World of Mathematics, Doubleday, Inc., NY, 1968.<br>COMMENTS: Historical, simple, probably useful at the elementary and junior high level. Related to life. | | T | | | | X |
| 516.23<br>H6 | Holden, Alan<br>Shapes, Space and Symmetry, Columbia University Press, NY, 1971.<br>COMMENTS: Reader of general interest in geometry. Some motivational items for the classroom. Higher grades reading level. | G | S | | | | X |
| 516<br>H6 | Holton, Jean Laity<br>Geometry: A New Way of Looking At Space, Weybright & Talley, NY, 1971.<br>COMMENTS: Compares Euclidean postulates with those of hyperbolic or elliptical geometry postulates. | G | T | | | | X |
| 510.09<br>Ho | Hooper, Alfred<br>Maker of Mathematics, Vintage Books, Random House, NY, 1948.<br>COMMENTS: Historical resource of teachers for classroom use. Some advanced sections. | G | T | | | | X |
| 510.76<br>H95 | Hynes, M. C. and Brumbaugh, D. K.<br>Mathematics Activities Handbook for Grades 5-12, Parker, NY, 1976.<br>COMMENTS: Collection of interesting activities in Algebra, Geometry, Strategies, Numbers, Measurement and Graphs, Resource for classroom use. Concrete. | G | T | X | X | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.712<br>S48i | Ideas & Activities for 7-9 Mathematics, Department of Education, Winnipeg, Man., 1981.<br>COMMENTS: Monograph. Very good resource for classroom use. Designed to help Curriculum Implementation. | | T | X | X | X | |
| 510.76<br>157<br>Bk. 1 | Introduction to Mathematics: Book 1: Pre GED program, Cambridge, 1980.<br>COMMENTS: Practice with whole numbers and fractions. Preparation for High School Equivalency Exam. Worksheets. | GED | S | | | | |
| 510.76<br>157<br>Bk. 2 | Introduction to Mathematics: Book 2: Pre GED program, Cambridge, 1980.<br>COMMENTS: Worksheets and Answers. | GED | S | | | X | |
| 513.2<br>J35 | James, E. J., (et al)<br>What Do You Mean By Average? Means, Medians and Modes, Lothrop Lee & Shepard Co., NY, 1978.<br>COMMENTS: Monograph: Story telling; elementary explanations of mean, median and mode. Maybe of use in special cases. Low ability. Related to real life. | 9 | S | | | | |
| 510<br>K1 | Kline, Morris<br>Mathematics & The Physical World, Crowell, NY, 1959.<br>COMMENTS: A discussion of mathematical contributions to the field of science. | G | T | | | | X |
| 510<br>K87<br>V. 1 | Kurschak, Jozsef<br>Hungarian Problem Book, vol. 1, Random House, NY, 1963.<br>COMMENTS: Contest problems and solutions. High level skills required. | G | S | | | | X |
| 510<br>K87<br>V. 2 | Kurschak, Jozsef<br>Hungarian Problem Book, vol. 2, Random House, NY, 1963.<br>COMMENTS: Contest problems and solutions. High level skills required. | G | S | | | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.28<br>L49 | Lewis, J. and Davies, H.<br>The Usborne Pocket Calculator Book, Usborne Electronics, ON, 1982.<br>COMMENTS: Calculator tricks of some teaching value in the classroom. At Grade 7 or elementary level. Motivational. | G | S | | | | X |
| K<br>519.1<br>L5 | Linn, C. F.<br>Estimation, Thomas Y Crowell Co., NY, 1972.<br>COMMENTS: Kit: Cassette and filmstrip: Elementary concepts of estimations. Student use in special situations. Grade 6 or 7. Concrete. | 6-7 | S | | | | X |
| 519.2<br>L5 | Linn, F. and Watson, W.<br>Probability, Thomas Y. Crowell, NY, 1972.<br>COMMENTS: Elementary and storybook approach to probability. Supplementary motivation for special situations. Grades 6-9. Related to real life. | 6-9 | S | | | | X |
| K<br>515<br>M38<br>V. 1 | Mathematical Science Group<br>Introduction to Calculus, Sequences of Convergence, Encyclopedia Britannica, Chicago, IL, 1971.<br>COMMENTS: Six filmstrips with records covering the following Imagining sequences, getting down to terms, tail end of a sequence, convergence to zero, limits different from zero. Bounded increasing sequences. Objectives and narration included. | 305 | T | | | X | |
| K<br>515<br>M38<br>V. 2 | Mathematical Science Group<br>Introduction to Calculus, Limits and Functions, Encyclopedia Britannica, Chicago, IL, 1971.<br>COMMENTS: Six filmstrips, six records. Topics and ideas. Numbers and limits, function and formulae, functions graphs and slopes. Looking ahead to calculus. Objectives and narration included in the kit. | 305 | T | | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.712<br>M38 | Mathematics 204, 201, 200, Department of Education, Winnipeg, Man., 1982.<br>COMMENTS: Curriculum Guide 204, 201, 200. | | | | | | |
| 510.712<br>M38 | Mathematics 304, 301, 300, Department of Education, Winnipeg, Man., 1984.<br>COMMENTS: The Interim Guide for Grade 12. | 12 | T | | | | |
| 510.71<br>M38 | Mathematics for the Middle Grades (5-9), National Council of Teachers of Mathematics, Reston, VA, 1982.<br>COMMENTS: 1982 Yearbook. Topics include: critical issues, activities, games, contests and student presentations. | G | T | | | | X |
| 510.23<br>M38 | Mathematics: Who Needs It? Department of Education, Winnipeg, Man.<br>COMMENTS: A booklet that points out to students the importance of continuing their math studies. A kit is also available. | G | T/S | | | | |
| 510.7<br>M54 | Miller, F. and Henderson G. L.<br>Let's Play Games in Mathematics, Vol 7, National Textbook Co., IL, 1972.<br>COMMENTS: 113 activities and games by classroom use in grade 7-9 Math. Teacher resource. Simple ideas, practical, concrete. | 7-9 | | X | X | | X |
| K<br>513<br>M87<br>V. 1 | Murfin, Mark and Bazelon, J.<br>Cross-number puzzles (whole numbers), SRA (Canada) Ltd., Toronto, 1976.<br>COMMENTS: Kit: Arithmetic operations with whole numbers; game of crossword type puzzles. Puzzles on each card; drill practice with positive reinforcement. | 7 | T/S | X | X | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| K<br>513<br>M87<br>V. 2 | Murfin, Mark and Bazelon, J.<br>Cross-number puzzles (decimals and percent), SRA (Canada) Ltd., Toronto, 1976.<br>COMMENTS: Kit: Arithmetic operations with decimals: calculation of percents. Crossword type puzzle game on each card. Drill and practice with positive reinforcement. | 7 | T | X | X | | |
| 514<br>Ne | Neeley, Henry M.<br>Triangles: Getting Ready for Trigonometry, Thomas Y. Crowell, NY, 1962.<br>COMMENTS: Monograph: Constructive geometry. Simplified conventional approach. Can be useful in the classroom. Concrete. | 7-9 | T | | X | | |
| 510<br>Ne<br>V. 1 | Newman, J. R.<br>The World of Mathematics: Vol 1, Simon & Shuster, NY, 1956.<br>COMMENTS: Historical, biographical accounts. History of number theory and mathematics of space; interesting resource for classroom information. | G | T | | | | X |
| 510<br>Ne<br>V. 2 | Newman, J. R.<br>The World of Mathematics: Vol 2, Simon & Shuster, NY, 1956.<br>COMMENTS: Historical accounts of math and its relationship to physical and social science as well as statistics. Useful classroom information. Teacher resource. | G | T | | | | X |
| 510.712<br>S48 | Occupational Entrance Course: Mathematics 7-9. Interim Guide, Manitoba Education, Winnipeg, Man., 1985.<br>COMMENTS: Curriculum guide. | G | T | | | | |
| 516.2<br>057 | Olson, Allan T.<br>Mathematics Through Paper Folding, National Council of Teachers of Mathematics, Reston, VA, 1978.<br>COMMENTS: Demonstrations of geometric concepts: Teacher resource for classroom use. Motivational. Junior high as well as high school. | G | T | | X | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| K<br>510<br>M38 | Opper, J. W., (et al)<br>Mathlab, Scholars Choice Ltd., Toronto, 1976.<br>COMMENTS: Kit: Problems and activities on cards for handout. Teacher guidance on cards. Covers wide range of abilities (K-9); numbers, fractions, measurement and graphing. Convenient size. | 7-9 | T/S | X | X | | |
| 510.92<br>074 | Osen, Lynn M.<br>Women in Mathematics, MIT Press, Cambridge, MA, 1974.<br>COMMENTS: Biographical sketches of mathematicians of the more recent centuries. Interesting for classroom use. Limited resource. | G | T | | | | X |
| 510.712712<br>P38 | Patzer, Ed and Luba, Peter<br>Problem Solving. An inservice model for Gr. 4-9 Math teachers. Department of Education, Winnipeg, Man.<br>COMMENTS: Good ideas and exercises for problem solving. Units non-metric and metric. Classroom use. Relates to life. | G | T | X | | | |
| 510.712712<br>P76 | Problem Solving Handbook for Gr. 7, 8, 9 Mathematics, Department of Education, Winnipeg, Man., 1982.<br>COMMENTS: Monograph: Handy Problem sheets for reproduction and handout. Good. SI metric. | G | T | X | | X | X |
| 510.78<br>R3 | Raab, Joseph A.<br>Audiovisual Materials in Mathematics, National Council of Teachers of Mathematics, Reston, VA, 1971.<br>COMMENTS: Lists of films, transparencies, videotapes, filmstrips, loops. Possibly outdated. | G | T | | | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 513<br>Ra | Ravielli, Anthony<br>An Adventure in Geometry, The Viking Press, NY, 1965.<br>COMMENTS: Elementary reader on geometry of shapes, angles, lines, etc. For special use. Related to life. | 7-9 | S | | | | X |
| 510.148<br>R41 | Reading in Mathematics, Department of Education, Winnipeg, Man., 1984.<br>COMMENTS: Print support materials for the video tape "Reading in Mathematics" which includes teaching suggestions and student activities, worksheets. | 7-12 | T | | X | X | |
| 512<br>Re | Reid, Constance<br>From Zero to Infinity. Thomas Y. Crowell, NY, 1964.<br>COMMENTS: Historical and philosophical discussions on numbers. Motivational information for classroom. Useful resource. Abstract. | G | T | | | | X |
| K<br>519.544<br>R49<br>V. 1 | Reys, B. J. and Reys, R. F.<br>Guess: Guide to Using Estimation Skills and Strategies, Box I, Dale Seymour Publications, CA, 1983.<br>COMMENTS: Kit: Skill development in estimating. Problems on cards. Well organized and good value; strategies for estimating followed by exercises. Whole numbers and decimals. Convenient size. | 7-9<br>(104) | | | | | |
| K<br>519.544<br>R49<br>V. 2 | Reys, B. J. and Reys, R. F.<br>Guess: Guide to Using Estimation Skills and Strategies, Box II, Dale Seymour Publications, CA, 1983.<br>COMMENTS: Kit: Skill development in estimating. Problems on cards. Well organized and good value; strategies for estimating followed by exercises. Numbers, decimals, percents. Convenient size. Relates to life. | 7-9<br>(104) | T/S | X | | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.7<br>R4 | Reys, R. E. and Post, T. R.<br>The Mathematics Laboratory; Theory to Practice, Prindle, Weber & Schmidt, Boston, MA, 1973.<br>COMMENTS: Useful resource. Strategies for activity based math learning. Some equipment may not be currently in use or available. New Math examples, along with others. | G | T | X | | | |
| 510<br>R56 | Ripley, R. D. and Tait, G. E.<br>Mathematics Enrichment, Copp Clarke, Vancouver, BC, 1966.<br>COMMENTS: 106 items of enrichment useful in classroom teaching. Teacher resource. Concrete. | G | T | | X | | X |
| 510.9<br>Ru | Ruchlis, H.<br>The Story of Mathematics, Harvey House, NY, 1958.<br>COMMENTS: Elementary relationships of some aspects of math to life. Teacher resource for limited classroom use. Motivational. | G | T | | | | X |
| 516.22<br>R8 | Runion, Garth E.<br>The Golden Section and Related Curiosa, Scott, Foresman, Glenview, IL, 1972.<br>COMMENTS: Projects range from construction to proofs. | G | T | | X | | X |
| 513.07<br>S35 | Schiro, Michael<br>Another 33 Arithmetic Skill Development Games, Fearon-Pitman, CA, 1978.<br>COMMENTS: Motivational activities to develop skills in Arithmetic operations. Classroom use. Teacher resource. | & | T | | X | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 516<br>S49 | Seydel, Ken<br>Geometry: An Exercise in Reasoning, Saunders, Philadelphia, 1980.<br>COMMENTS: A general text with a good introductory chapter on reasoning. Exercises. | 9-11 | S | | | X | |
| *510<br>S49 | Seymour, Dale and Shedd, Margaret<br>Finite Differences: A Problem Solving Technique, Creative Publications, Palo Alto, CA, 1973.<br>COMMENTS: Pattern discovery approach to problem solving. | G | | X | X | | X |
| 510.9<br>Sh | Shaw, H. Alan, and Fuge, K.<br>The Story of Mathematics, Edward Arnold Ltd., London, 1963.<br>COMMENTS: Elementary historical perspectives on numbers, geometry and measurements. Biographies. Grade 7 or less. | 7 | T | | | | X |
| K<br>513.1<br>S5 | Sitomer, M. and Sitomer, H.<br>What is Symmetry? Thomas Y. Crowell, NY, 1970.<br>COMMENTS: Kit. Cassette and filmstrip. Elementary concepts of symmetry. Single student use in special situations. Concrete. | 7 | S | | | | X |
| 510.712<br>S63 | Sobel, M, and Maletsky, E.<br>Teaching Mathematics: A Sourcebook of Aids, Activities and Strategies, Prentice-Hall, Englewood Cliffs, NJ, 1975.<br>COMMENTS: A collection of motivational ideas, activities and aids for mathematics instruction. | G | T | | | | X |
| 510.76<br>St | Steinhaus, H.<br>Mathematical Snapshots, Oxford University Press, NY, 1969.<br>COMMENTS: Interesting discussion of stimulating problems in the area of number, measurements, geometry. Classroom use for motivation in the junior high level. | G | T | | X | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| K<br>513.93<br>F85<br>V. 1 | Streeter, J. and Alexander, G.<br>Fundamentals of Business Mathematics: Module 1: Merchandising, Harper & Row, NY, 1979.<br>COMMENTS: Slide/tape or filmstrip/tape kit which introduces basic concepts in merchandising. Problem and solution frames follow the explanation of each concept. Topics include pricing, mark-ups, mark-downs, trade discounts and chain discounts. Relates to life. | 101 | T | | | X | |
| K<br>513.93<br>F85<br>V. 3 | Streeter, J. and Alexander, G.<br>Fundamentals of Business Mathematics: Module 3: Insurance, Harper & Row, NY, 1979.<br>COMMENTS: Slide/tape or filmstrip/tape kit. Fire, Auto, and four types of life insurance are discussed and compared. Skills include determining obligation of insurance company and amount to be paid as well as finding premiums. Problem and solution frames follow explanations. | | | | | | |
| 514.3<br>S8 | Struble, Mitch<br>Stretching a Point, Westminster Press, Philadelphia, PA, 1971.<br>COMMENTS: Interesting monograph for enrichment in geometry; math project ideas. Grade 7-12. Concrete. | G | T | X | | X | X |
| 510.9<br>St | Struit, D. J.<br>A Concise History of Mathematics, Dover, NY, 1967.<br>COMMENTS: Historical, informational, with bibliography. Teacher enrichment. Probably not up-to-date. | G | T | | | | X |
| 512.9<br>A44<br>V. 1 &<br>V. 2 | Usisken, Z.<br>Algebra Through Applications with probability and statistics, student text. 2 vols. National Council of Teachers of Mathematics, Reston, VA, 1976.<br>COMMENTS: A student text from "First Year Algebra via Applications Development Project" with questions after each section for discussion and comprehension. Exercises. | 9-10 | T | | X | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 516.20071<br>W4 | Weiss, Sol<br>Geometry, Content & Strategy for Teachers, Bogden & Quigley, NY, 1972.<br>COMMENTS: Some motivational ideas, activities and puzzles to introduce basic geometric concepts. | G | T | | | | X |
| 510<br>W53<br>V. 1 | Wigle, R., Dowling, P., and Jennings, P.<br>Mathematical Pursuits, One, MacMillan, Toronto, 1975<br>COMMENTS: Numerous student projects and teaching ideas. An attempt is made to minimize the "formal" teaching. | 9 | S | | X | X | |
| 510.76<br>Y34<br>V. 1 | Yaglom, A. M. and Yaglom, I. M.<br>Challenging Mathematical Problems with Elementary Solutions, Vol I,<br>Holden-Day, San Francisco, CA, 1964.<br>COMMENTS: Combinational analysis and probability theory for math clubs or contests. | T/S | | | | | X |
| 510.76<br>Y34<br>V.2 | Yaglom, A. M. and Yaglom, I. M.<br>Challenging Mathematical Problems with Elementary Solutions, Vol II,<br>Holden-Day, San Francisco, CA, 1964.<br>COMMENTS: Problems from various branches of mathematics for all contests or clubs. | T/S | | | | | X |

MATERIALS FOR GRADE 7

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>A45 | Allen, Charles E.<br>Supermath #3: Mathematics in Modules, Rand McNally, Chicago, IL,1976.<br>COMMENTS: Elementary coverage of arithmetic operations measurement and algebra. Restricted use. Concrete. Relates to life. | 7 | S | X | X | | |
| 510.28<br>B58 | Bitter, Gary G. and Mikesell, Jerald L.<br>Activities Handbook for Teaching with the Hand-Held Calculator, Allyn & Bacon, Boston, MA, 1980.<br>COMMENTS: Enrichment use with calculator. Covers a wide range of topics Gr. 7-9. Resource and some strategies. Abstract. Relates to life. | 7<br>(G) | T | X | X | | X |
| *510<br>B64 | Bolster, L. C. and Woodborn, H. D.<br>Mathematics in Life: Skills, Consumer Career Applications, Gage, Toronto, 1978.<br>COMMENTS: Text-type resource for optional areas in Grade 9 and several areas of Grade 7 and 8. Application orientation is very strong. Concrete. Relates to life. | 7<br>(101) | T | X | | X | X |
| *510<br>B64s | Bolster, L. C. and Woodborn, H. D.<br>Mathematics in Life: Solution Key, Gage, Toronto, 1978.<br>COMMENTS: Solutions to exercises and problems for accompanying text. Essential. | 7 | T | | | X | |
| 511.007<br>B87 | Burstein, J.<br>General Mathematical Ability: Preparation for GED Cambridge, NY, 1973.<br>COMMENTS: Text-type resource. Drills and practice exercises and tutorial. Useable for all areas. Abstract. | 7 | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 513<br>L41<br>Bk. 1 | Braithwaite, G. H. (et al)<br>Learning to Compute, Book 1, Harcourt Brace Jovanovich, NY, 1981.<br>COMMENTS: Drill and practice exercises. Resource for teachers.<br>Arithmetic: Mixed units. Useable. Abstract. Relates to life. | 7 | S | | | X | |
| 513<br>L41<br>Bk. 2 | Braithwaite, G. H. (et al)<br>Learning to Compute, Book 2, Harcourt Brace Jovanovich, NY, 1981.<br>COMMENTS: Drill and practice exercises.<br>Arithmetic. Mixed units. Useable. | 7 | S | | | X | |
| 513<br>L41t | Braithwaite, G. H. (et al)<br>Learning to Compute, Book 2, Teacher Edition, Harcourt Brace Jovanovich, NY, 1981.<br>COMMENTS: Drill and practice exercises. Resource for teachers.<br>Arithmetic. Mixed units. Useable. | 7 | T | | | | |
| *510<br>H65<br>1984 - Bk. 1 | Bye, M. P. (et al)<br>Holtmath 7. Holt, Rinehart and Winston, Toronto, 1984.<br>COMMENTS: Text. Listed by Manitoba Textbook Bureau. SI units. | 7 | S | X | | X | X |
| *510<br>H65t<br>1984<br>Bk. 1 | Bye, M. P. (et al)<br>Holtmath 7, Teacher Edition. Holt, Rinehart and Winston, Toronto, 1984.<br>COMMENTS: Text. Listed by Manitoba Textbook Bureau. SI units. | 7 | T | X | | X | X |
| *510<br>C33 | Cadwell, J. D., (et al)<br>Modern Mathematics, Thomas Nelson, Toronto, 1965.<br>COMMENTS: Outdated; still in teacher use. British system. Exercises. | 7 | | | | | X |
| *510<br>C33t | Cadwell, J. D. (et al)<br>Modern Mathematics: Teacher Manual, Thomas Nelson, Toronto, 1975.<br>COMMENTS: Outdated; still in teacher use. British system. Exercises. | 7 | T | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>D44<br>V. 7 | Del Grande, J. (et al)<br>Mathematics 7, Gage Publishing, Toronto, 1980.<br>COMMENTS: Catalogued by the Manitoba Textbook Bureau. Exercises. Concrete, relates to life. | 7 | S | X | X | | |
| *510<br>D55<br>V. 2 | Dilley, C. A. and Rucker, W. E.<br>Mathematics: Modern Concepts and Skills: Supplementary Exercises, D. C. Heath, Lexington, MA, 1969.<br>COMMENTS: Used in conjunction with text listed by the Manitoba Textbook Bureau. Exercises. | 7 | | X | | | |
| *510<br>D55t<br>V. 2 | Dilley, C. A. and Rucker, W. E.<br>Mathematics: Modern Concepts and Skills, Book 2, D. C. Heath, Lexington, MA, 1968.<br>COMMENTS: Inadequate coverage of Grade 7 math. Listed in Manitoba Textbook Bureau catalogue for special needs. British system of units. Exercises. | 7 | T | | | X | |
| *510<br>D55<br>V. 3 | Dilley, C. A. and Morrow, L. J.<br>Mathematics: Modern Concepts and Skills, Book 3, D. C. Heath, Lexington, MA, 1969.<br>COMMENTS: Text-type resource. Covers many area of Grade 7 and some of Grade 8 and 9. British system of units. Listed by the Manitoba Textbook Bureau. Exercises, concrete. Relates to life. | 7 | S | X | X | X | |
| *510<br>D55t<br>V. 3 | Dilley, C. A. and Rucker, W. E.<br>Mathematics: Modern Concepts and Skills, Book 3, Teacher Edition, D. C. Heath, Lexington, MA, 1969.<br>COMMENTS: Text-type units. Exercises, concrete. Relates to life. | 7-9 | T | X | X | X | |

| Call # | RESOURCES | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.7<br>D64 | Dolan, Daniel T. and Williamson, James<br>Teaching Problem-Solving Strategies, Addison Wesley, Toronto, 1983.<br>COMMENTS: Teacher resource especially for slower learners. Fractions and geometry emphasis. Interesting strategies. Concrete. | 7- | T | X | X | | |
| *510<br>157<br>V. 1 | Dottori, D. (et al)<br>Intermediate Mathematics 1, McGraw-Hill Ryerson Ltd., Toronto,1981.<br>COMMENTS: Listed by the Manitoba Textbook Bureau. Relates to life. Exercises. | 7 | S | | | | X |
| *510<br>157t<br>V. 1 | Dottori, D. (et al)<br>Intermediate Mathematics 1, Teacher Edition, McGraw-Hill Ryerson Ltd., Toronto,1981.<br>COMMENTS: Relates to life. SI metric. | 7 | T | X | | X | X |
| 510<br>153 | Dottori, D., (et al)<br>Life Math 3, McGraw-Hill Ryerson, Toronto, 1982.<br>COMMENTS: Rich in exercises. Illustrated with examples. Short on definitions and descriptions. Drill use. SI metric. Relates to life. | 7<br>(8) | S | X | | X | |
| *510<br>H68<br>V. 7 | Dukowski, Les (et al)<br>Mathematics 7, Houghton Mifflin, Toronto, 1985.<br>COMMENTS: Approved text. Catalogued section on Statistics and Probability. | 7 | S | | | | |
| *510<br>H68t<br>V. 7 | Dukowski, Les (et al)<br>Mathematics 7, Teacher's Resource Book, Houghton Mifflin, Toronto, 1985.<br>COMMENTS: Teachers resource to accompany text solutions, answers and enrichment. Essential. Small print for teachers. | 7 | T | | | X | X |

| Call # | RESOURCES | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| *510<br>H68te<br>V. 7 | Dukowski, Les (et al)<br>Mathematics 7: Testing and Practice Masters, Houghton Mifflin, Toronto, 1985.<br>COMMENTS: Worksheets and tests for reproduction and handout. Solutions in Teachers' Resource Book. | 7 | T | | | | |
| 510<br>M40 | Duncan, E.R., (et al)<br>Mathematics, Houghton Mifflin, Boston, MA, 1978.<br>COMMENTS: Text-type: American orientation. Lesser ability levels. Algebra missing. Slightly outdated. Answers to exercises not supplied in book. | 7 | S | X | | | |
| *510<br>E25<br>Levl | Ebos, F., (et al)<br>Math 1s/1, Nelson Canada, Scarborough, ON, 1982,<br>COMMENTS: Text: listed by the Manitoba Textbook Bureau. SI metric, exercises. Relates to life. | 7 | S | X | | | X |
| *510<br>E25t<br>Levl | Ebos, F., (et al)<br>Math 1s/1: Teacher Edition, Nelson Canada, Scarborough, ON, 1982.<br>COMMENT: Support for text: enrichment, teaching notes, lesson planning help and strategies for use. Small letters. Relates to life. | 7 | T | X | | | X |
| 510<br>P73 | Fisher, Loretta B., (et al)<br>Practice for Mathematics 7, Laidlaw Brothers, IL, 1965.<br>COMMENTS: Worksheets for homework, reproduction and handout. British and metric system. Outdated but useful. | 7 | S | | | | |
| 510<br>P73t | Fisher, Loretta B., (et al)<br>Practice for Mathematics 7: Teachers Edition., Laidlaw Brothers, IL, 1965.<br>COMMENTS: Solutions to student worksheets. Many sheets of use in drill and practice, homework. Abstract. | 7 | T | | | X | |

| Call # | Resources | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| *510<br>F52 | Fleenor, C. R. (et al)<br>School Mathematics 1, Addison-Wesley, Toronto, 1974.<br>COMMENTS: Incomplete coverage of Gr. 7 material. Algebra missing. Slightly outdated but useable. Text listed by Manitoba Textbook Bureau. Exercises. | 7<br>(8) | S | X | | X | X |
| *372.7<br>F73<br>V. 1-V. 6 | France, N. and Clarke, B. T.<br>Spectrum Mathematics,Red, Orange, Yellow, Green, Blue, Purple, Laidlaw Brothers, IL, 1971.<br>COMMENTS: A set of books listed by Manitoba Textbook Bureau. Used by teachers. Outdated; with British units. Useful drill and practice sheets. Remedial. | 7 | T/S | | | X | |
| 510.7<br>H34 | Hallick, Dennis<br>Team Sport Math Games for the Classroom, The author, Winnipeg, MB, 1976<br>COMMENTS: Non-standard way of teaching some areas of junior high math of interest to special students. Concrete. Relates to life. | 7<br>(104) | | | X | | X |
| 513.2<br>H44 | Hemmer, William<br>Arithmetic By Example, D. C. Heath, Toronto, 1979.<br>COMMENTS: Drill and practice exercises: Mixed Units. Arithemetic skill development. Teacher resource. Abstract. | 7<br>(8) | S | X | | X | |
| 513.2<br>H44t | Hemmer, William<br>Arithemtic by Example: Instructor Resource Manual, D. C. Heath, Toronto, 1979.<br>COMMENTS: Support material for text: Hints and guidance for teachers. More exercises and tests with answers. Useful. | 7-8 | T | X | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 513.2<br>H44s | Hemmer, William<br>Arithmetic By Example: Student Solutions Manual, D. C. Heath, Toronto, 1979.<br>COMMENTS: Support material for text. Abstract. | 7-8 | S | | | X | |
| 510<br>H68wb<br>V. 7 | Holmes, Richard<br>Mathematics 7: Problem Solving Activities, Houghton-Mifflin, Toronto, 1986.<br>COMMENTS: To be used in conjunction with text. Exercises, SI Metric. | 7 | S | X | | | X |
| 510<br>H69d | Howett, Jerry<br>Basic Skills with Decimals and Percents: Step by Step Approach, Cambridge, Basic Skills, NY, 1980.<br>COMMENTS: Resource limited to exercises and answers in two areas of grade 7. Useable in special situations as monograph. | 7 | S | | | X | |
| 510<br>H69f | Howett, Jerry<br>Basic Skills with Fractions: A Step by Step Approach, Cambridge Basic Skills, NY, 1980.<br>COMMENTS: Resource limited to exercises in one area of grade 7 (or 5) math. Useable in special situations as monograph. | 7 (G) | S | X | | X | |
| 510<br>H69w | Howett, Jerry<br>Basic Skills with Whole Numbers: A Step by Step Approach, Cambridge Basic Skills, NY, 1980.<br>COMMENTS: Resource limited to one area. Useable monograph in special situations. | 7- | S | | | X | |
| 510.28<br>V47x<br>Bk. 2 | Immerzeel, G. and Ockenga, E.<br>Calculator Activities for the Classroom, Creative Publications, Palo Alto, CA, 1979.<br>COMMENTS: Introductory use of calculators in the area of numbers, fractions and operations. Useful for grade 7 or less. Exercises. | 7- | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.28<br>145<br>Bk. 1 | Immerzeel, G. and Ockenga, E.<br>The Calculator Book, Book 1, Addison-Wesley, Menlo Park, CA, 1979.<br>COMMENTS: Elementary version of calculator use. Covers numbers, operations, fractions, percents and measurements. Grade 7 or lower. | 7 (L) | T | | | X | |
| 510.28<br>145<br>Bk | Immerzeel, G. and Ockenga, E.<br>The Calculator Book 2, Addison-Wesley, Menlo Park, CA, 1979.<br>COMMENTS: Calculator exercises covering a wide range of grades 7-9 curriculum. | 7 | S | | | | |
| *510.76<br>M38 | Jones, W. L.<br>Mathematics for Today - Level Orange, Sadlier-Oxford, NY, 1979.<br>COMMENTS: Text-type resource; no algebra. Mixed units. Diagnostic. Tests for skill development. Marginally useful. Exercises. Relates to life. | 7 | T/S | | X | | X |
| 513.132076<br>K55 | Knill, G.<br>Mathematics Skill Building, McGraw-Hill Ryerson Ltd., Toronto, 1972.<br>COMMENTS: Drill and practice exercises in arithmetic operations. Compact and useful. Non-metric. Teacher resource of some value. | 7 | T | | | | |
| 510<br>J69<br>V. 1 | Lesage, J. W. (et al)<br>Journeys in Math 7, Ginn, Toronto, 1986.<br>COMMENTS: Plenty of drill and practice exercises and cumulative tests. Instructions very brief. | 7 | S | | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>J69tr<br>V. 1 | Lesage, J. W. (et al)<br>Journeys in Math 7: Teacher Resource Manual, Ginn, Toronto, 1986.<br>COMMENTS: Strategies for teaching. Essential for using previous text. | 7 | T | X | | | |
| 510<br>J69d<br>V. 1 | Lesage, J. W. (et al)<br>Journeys in Math 7: Teaching Aids, Ginn, Toronto, 1986.<br>COMMENTS: Sheets for reproduction, as overheads, handouts and tests. | 7 | T | X | X | | |
| 513.92<br>L63 | Locke, F. M.<br>Maths Shortcuts, John Wiley & Sons, NY, 1972.<br>COMMENTS: Monograph: Number operations: Enrichment for developing estimating skills; some tricks for handling numbers. Limited to one area. Exercises. Abstract. | 7 | T/S | X | | X | X |
| 510<br>L69 | Lowry, D. W. (et al)<br>Heath General Mathematics, D. C. Heath, Lexington, MA, 1985.<br>COMMENTS: Text: American content. British and metric systems. Useable for some grade 7-8 areas. Exercises. Relates to life. | 7<br>(8) | S | | | | |
| 510<br>L69t | Lowry, D. W. (et al)<br>Heath General Mathematics: Teacher Edition, D. C. Heath, Lexington, MA, 1985.<br>COMMENTS: Text: American content. British and metric systems. Useable for some grade 7-8 areas. Exercises. Relates to life. | 7 | T | | | | |
| 510<br>L69c | Lowry, D. W. (et al)<br>Heath General Mathematics: Copymasters, D. C. Heath, Lexington, MA, 1985.<br>COMMENTS: Perhaps more useful than text: tests, worksheets and visual aids for reproduction and handout in classroom. Relates to life. | 7<br>(8) | T | | | X | |

| Call # | Resources | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| *510<br>M37b | Maclean, W. B. (et al)<br>Mathematics Book 7: Student Edition. Copp, Clarke,Toronto, 1970.<br>COMMENTS: Outdated: some teacher use. Little algebra. Metric and British systems. Answers in teachers edition. Exercises. Relates to life. | 7<br>(8) | | X | | | |
| *510<br>M37bt | Maclean, W. B. (et al)<br>Mathematics Book 7: Teacher Edition, Copp, Clarke,Toronto, 1970<br>COMMENTS: Outdated: exercises. Relates to life. | 7 | T | X | | | |
| 372.7045<br>M38<br>Lev 7 | Mason, D. J. (et al)<br>Mathways 7, Copp, Clark, Pitman, Toronto, 1979.<br>COMMENTS: Text listed by Manitoba Textbook Bureau. SI metric, exercises. Relates to life. | 7 | S | X | | X | X |
| 372.7045<br>M38t<br>Lev 7 | Mason, D. J. (et al)<br>Mathways 7: Teacher Resource Manual, Copp, Clarke, Pitman, Toronto, ON, 1980.<br>COMMENTS: Support material for text: hints for teachers. Black line masters of exercises. SI metric exercises. | 7 | T | | | X | X |
| 510<br>H45 | Mason, D. C. and Sparrey, N. D.<br>Basic Mathematics I, Ginn, Toronto, 1973.<br>COMMENTS: Elementary coverage of many grade 7 and 8 topics. Maybe useful for grade 6. Mixed use of Metric and British units. Exercises. Concrete. | 7<br>(8) | S | | | X | |
| *510<br>M37b | McSwain, E. T. (et al)<br>Mathematics 7, Laidlaw Brothers, Toronto, 1966.<br>COMMENTS: Outdated. Useable. | 7<br>(8) | T | | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| *510<br>P63<br>V. 1 | Pogue, P., (et al)<br>Mathbase: essential math skills, Copp, Clark, Pitman, Toronto, 1979.<br>COMMENTS: Text for students of lesser ability. No algebra. Concrete. Relates to life. SI metric. | 7 (G) | S | | X | X | |
| *K<br>513<br>P76 | Proctor C., and Johnson, P.<br>Computational skills development kit, SRA, Chicago, IL, 1965.<br>COMMENTS: KIT: Self Instructional: numbers, fraction, decimals, and percent. Inadequate for all of Grade 7: Diagnostics and Survey. Texts with answers: student manual: useable in special situations. Large bread box size. Exercises. | 7 | S | | | X | |
| *510<br>R53<br>V. 1 | Ridge, H. L., Rachar, F. B., and Wright, B. B.<br>Mathscope 1, Prentice-Hall, Scarborough, ON, 1981.<br>COMMENTS: Text: listed by Manitoba Textbook Bureau, Exercises. Relates to life. SI metric. | 7 | S | X | | | X |
| *510<br>R53t<br>V. 1 | Ridge, H. L. (et al)<br>Mathscope 1: Teachers Manual, Prentice-Hall, Scarborough, ON, 1981.<br>COMMENTS: Support of text with teaching notes, answers to problems, texts and worksheets. Paper quality inferior to text. | | | | | | |
| 510<br>G45 | Shaw, B. R.<br>General Math 1, Houghton-Mifflin, Boston, MA, 1980.<br>COMMENTS: Organization is novel; Concept to Application. Algebra missing. American examples. Teacher resource use. SI metric. Exercises. Relates to life. | 7 | S | X | | X | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| *K 513 S43 | Shaw, B. R., (et al) Individualized Computational Skills Program: Strand 6: Fractions, Addition, Subtraction, ICSP, Houghton-Mifflin, Boston, MA, 1972. COMMENTS: Duplicate and handout worksheets for drill on fractions. Handy set. | 7 | T | | | | |
| *K 513 S43 | Shaw, B. R., (et al) Individualized Computational Skills Program: Strand 7: Fractions, Multiplication, Division, ICSP, Houghton-Mifflin, Boston, MA, 1972. COMMENTS: Duplicate and handout worksheets for drill on fractions. Handy set. | 7 | T | | | | |
| *K 513 S43 | Shaw, B. R., (et al) Individualized Computational Skills: Strand 10, Percents, Individualized Computational Skills Program, Houghton-Mifflin, Boston, MA. 1972. COMMENTS: Percent skills sheets useful as drill hanouts. Handy set of exercises. | 7 (8) | T | | | | |
| 510 B37 | Steel, Geoffrey G. (Editor) Basic Mathematics 1: Teacher Guide, Ginn, Scarborough, ON, 1975. COMMENTS: Teacher guide to Basic Mathematics 1. Answers and explanations. | 7-8 | T | | | X | X |
| 510.28 V47 V. 1 | Vervoort, G. and Mason, D. J. Calculator Activities for the Classroom 1, Copp, Clark, Toronto, 1977. COMMENTS: Reproduction and handout sheets for drill and practice, games in essentially grade 7 and some consumer mathematics. Useable. | 7 | T | | | | |
| 510.28 V47 V. 2 | Vervoort, G. and Mason, D. J. Calculator Activities for the Classroom 2, Copp, Clark, Toronto, 1977. COMMENTS: Reproduction handout sheets for drill and practice and games. Essentially for Grade 7 and consumer mathematics. Useable. | 7 | T | | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.28<br>V47<br>V. 3 | Vervoort, G. and Mason, D. J.<br>Calculator Activities for the Classroom 3, Copp, Clark, Toronto, 1977.<br>COMMENTS: Reproduction handout sheets fro drill and practice and games. Essentially for Grade 7 and some consumer mathematics. Useable. | 7 | T | | | | |
| 510.28<br>V47y<br>V. 2 | Vervoort, G. and Mason, D. J.<br>Intermediate Calculator Math, Fearon Pitman, Belmont, CA, 1980.<br>COMMENTS: Use of calculators in the teaching of numbers, fractions, measurements and practical mathematics. May be used for drill and enrichment. Concrete. Relates to life. | 7 | T | | X | X | X |

MATERIALS FOR GRADE 8

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 512.72<br>A3 | Adler, I. and Lambie, L. J.<br>Integers: positive and negative, John Day, NY, 1972.<br>COMMENTS: Game strategy to teach positive and negative integers. Monograph. Of use to special students. Concrete. | 8 | T/S | | X | | |
| *510<br>A45<br>V. 2 | Allen, C. E. (et al)<br>Supermath: Mathematics in Modules, Rand McNally, Chicago, IL, 1976.<br>COMMENTS: Elementary coverage of graphing, measurements, algebra. Concrete, related to life. | 7-8 | S | X | X | | X |
| *510<br>H65<br>Bk. 2 | Bye, M. P. (et al)<br>Holtmath 8, Holt, Rinehart and Winston, Toronto, 1984.<br>COMMENTS: Text: Listed by Manitoba Textbook Bureau. Construction geometry and statistics, would be of use in Grade 9. Exercises, SI Metric. | 8-9 | S | X | | X | X |
| 510<br>H65t<br>Bk. 2 | Bye, M. P. (et al)<br>Holtmath 8, Teacher Edition, Holt, Rinehart, Winston, Toronto, 1985.<br>COMMENTS: Support for text. Useful for planning strategies and enrichment. | 8-9 | T | X | | X | X |
| 510<br>D44<br>V. 8 | Del Grande, J. J. (et al)<br>Mathematics 8, Gage Publishing Ltd., Toronto, ON, 1982.<br>COMMENTS: Text listed by Manitoba Textbook Bureau. Exercises, SI Metric. Related to life. | 8 | S | X | X | | X |
| 510<br>D44t<br>V. 8 | Del Grande, J. J. and Morrow, L.<br>Mathematics 8: Teacher Edition, Gage, Toronto, 1984.<br>COMMENTS: Listed by Manitoba Textbook Bureau, teaching suggestions, extensions, extra practice, activities. | 8 | T | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| *510<br>157<br>V. 2 | Dottori, D. (et al)<br>Intermediate Mathematics 2, McGraw-Hill Ryerson, Toronto, 1981.<br>COMMENTS: Listed by Manitoba Textbook Bureau. Text. SI Metric, Exercises. Related to life. | 8 | S | | | | X |
| *510<br>157t<br>V. 2 | Dottori, D. (et al)<br>Intermediate Mathematics 2: Teacher Edition, McGraw-Hill Ryerson, Toronto, 1987.<br>COMMENTS: Support for Text. Help with lesson planning, teaching strategies and enrichment. SI Metric. Related to life. | 8 | T | X | | X | X |
| *510<br>H68<br>V. 8 | Dukowski, Les (et al)<br>Houghton-Mifflin Mathematics 8, Houghton-Mifflin, Toronto, 1985.<br>COMMENTS: Text: Listed with Manitoba Textbook Bureau. SI Metric, Exercises. Related to life. | 8 | S | X | | | |
| *510<br>H68t<br>V. 8 | Dukowski, Les (et al)<br>Houghton-Mifflin Mathematics 8: Teacher Resource Book, Houghton-Mifflin, Toronto, 1985.<br>COMMENTS: Support for text listed by Manitoba Textbook Bureau with emphasis on problem solving, enrichment and suggestions for lesson planning. Exercises. | 8 | T | X | | | X |
| 510<br>H68te<br>V. 8 | Dukowski, Les (et al)<br>Houghton-Mifflin Mathematics 8: Testing & Practice Masters, Houghton-Mifflin, Toronto, 1985.<br>COMMENTS: Support for text listed with Manitoba Textbook Bureau. For reproduction and handout, as worksheets and tests. Related to life. SI Metric. | 8 | T | X | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| *510<br>E25<br>Lev. 2 | Ebos, F., (et al)<br>Math 1s/2, Nelson Canada, Scarborough, ON, 1984.<br>COMMENTS: Text: Listed with Manitoba Textbook Bureau. SI Metric. Exercises. Related to life. | 8 | S | X | | | |
| *510<br>F53 | Fleenor, C. R. (et al)<br>School Mathematics, Addison-Wesley, Toronto, 1974.<br>COMMENTS: Listed as text by Manitoba Textbook Bureau. Algebra left out. Incomplete coverage but still useful for other areas. SI Metric. Exercises. | 8 | S | X | | | X |
| *372.7045<br>M38<br>Lev. 8 | Fullerton, O. (et al)<br>Mathways 8, Copp Clark Pitman, Toronto, 1980.<br>COMMENTS: Text listed by Manitoba Textbook Bureau. SI Metric, Exercises. Related to life. | 8 | S | X | | X | X |
| *372.7045<br>M38t<br>Lev. 8 | Fullerton, O. (et al)<br>Mathways 8: Teacher Resource Manual, Copp Clark Pitman, Toronto, 1980.<br>COMMENTS: Support material for text. Hints for teachers. Black line masters of exercises, figures, etc. SI Metric. | | | | | | |
| 510<br>H68<br>V. 8 | Holmes, R. (et al)<br>Houghton-Mifflin Mathematics 8, Houghton-Mifflin, Toronto, ON, 1986.<br>COMMENTS: Text listed with Manitoba Textbook Bureau. | 8 | S | | | | |
| 510<br>H68wb<br>V. 8 | Holmes, R. (et al)<br>Houghton-Mifflin Mathematics 8: Problem Solving Activities, Houghton-Mifflin, Toronto, 1986.<br>COMMENTS: Support for text listed with Manitoba Textbook Bureau. Method of solving problems illustrated. Limited scope. Problem sets useful. Abstract. | 8 | S | X | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.77<br>P66 | Popeski, A.<br>Mathematics for Junior High Students: Whole Number Topics, Department of Education, Winnipeg, MB., 1977 revised.<br>COMMENTS: Drills and practice, problem solving techniques. Useful resource. Abstract. | 7<br>(8) | S | X | | | |
| *510<br>R53<br>V. 2 | Ridge, H. (et al)<br>Mathscope 2, Prentice-Hall, Scarborough, ON, 1982.<br>COMMENTS: Text: Listed by Manitoba Textbook Bureau. Little Algebra. SI Metric. Exercises. | 8 | S | X | | | |
| 510<br>V36<br>V. 2 | Vanatta, G. and Stoeckinger<br>Mathematics: Essentials and Applications Vol. 2, Charles Merrill, Toronto, 1980.<br>COMMENTS: Text type. Teacher resource of hints, answers and notes. American content. Covers some areas of 7 as well as 9. Organizational strengths. Exercises. Concrete. Related to life. | 8 | T | X | | X | X |

MATERIALS FOR GRADE 9

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>A45 | Allen, Charles E.<br>Supermath Number 1: Mathematics in Modules, Rand McNally & Co., Chicago, IL, 1976.<br>COMMENTS: Elementary coverage of number theory, sets, geometric constructions; concrete, relates to life. | 9<br>(8) | S | X | X | | X |
| 510<br>B32<br>V. 7 | Backus, D. W., (et al)<br>It's Mathematics 7, Gage, Agincourt, ON, 1984.<br>COMMENTS: Covers many topics grade 7-9 level. Brief sections but wide exposure to curriculum. Illustrations and organization good. Text type book. SI metric, exercises. | 9<br>(7) | S | | | X | |
| 513<br>Be | Bentley, W. H. E., and Potts W. M.<br>Geometry: Part One: discovery by drawing and measurement, Ginn, Glasgow, 1962.<br>COMMENTS: Construction and scale drawing experiments. | 9 | T | | X | | X |
| 510<br>H65<br>Bk.3 | Bye, M. P. (et al)<br>Holtmath 9, Holt, Rinehart and Winston, Toronto, 1985.<br>COMMENTS: Text listed by Manitoba Textbook Bureau. | 9<br>(7) | S | | | X | |
| 512<br>A44 | Corcoran, C. L. (et al)<br>Algebra One, Scott, Foresman, Glenview, IL, 1977.<br>COMMENTS: A general text with several chapters devoted to beginning algebraic problem solving. Exercises. | 9<br>(100) | S | | | X | |
| 512.1<br>M38 | Dottori, D. (et al)<br>MT2: Mathematics for Today & Tomorrow: Metric Edition, McGraw-Hill Ryerson, Toronto, 1974.<br>COMMENTS: Text type source: Metric examples covers many areas of Grade 9. Useful for drill and problem solving. Abstract. | 9<br>(8) | T/S | X | | X | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 512.1<br>M38t | Dottori, D. (et al)<br>MT2: Mathematics for Today & Tomorrow: teachers guide, McGraw Hill Ryerson Ltd., Toronto, ON, 1974.<br>COMMENTS: Organizational material in support of text: brief notes. Useful for lesson plans. | 9<br>(8) | T | | | | |
| *510<br>157<br>V. 3 | Dottori, D., (et al)<br>Intermediate Mathematics 3, McGraw-Hill Ryerson, Toronto 1984<br>COMMENTS: Approved text with extra challenges and activities included. SI Metric exercises. | 9 | S | X | X | X | |
| *510<br>L57t<br>V. 3 | Dottori, D., (et al)<br>Intermediate Mathematics 3: Teachers Edition, McGraw-Hill Ryerson Toronto, 1984.<br>COMMENTS: Alternate teaching strategies and chapter tests are included. SI Metric. | 9 | T | X | | X | X |
| 510<br>E26<br>Bk. 3 | Ebos, F., and Zolis, P.<br>Math Matters: Book 3, Nelson Canada, Scarborough, ON, 1987.<br>COMMENTS: Incomplete coverage of curriculum. Some algebra, geometry, trigonometry and application type chapters. | 9 | S | | | X | |
| *510<br>E25<br>Lev. 3 | Ebos, F., and Tuck, B.<br>Math Is/3, Nelson Canada, Scarborough, ON<br>COMMENTS: Text: Listed by Manitoba Textbook Bureau. Exercises. Related to life. | 9<br>(8) | S | X | | | X |
| *510<br>E25t<br>Lev. 3 | Ebos, F. and Tuck, B.<br>Math Is/3: Teachers Edition, Nelson Canada, Scarborough, ON, 1984.<br>COMMENTS: Text support for teachers. Adequate coverage of curriculum. Poor readability for senior teachers - small print. SI Metric. | 9<br>(8) | T | X | | X | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| *510<br>E25m | Ebos, F., and Tuck, B.<br>Math Masters/Grade 9, Nelson Canada, Scarborough, ON, 1985.<br>COMMENTS: Teacher resource of worksheets and tests with answers. To be used in conjunction with text. | 9<br>(8) | T | | | X | |
| 510<br>E35t | Edmonds, F. (et al)<br>Patterns in Mathematics: Teacher Manual, Houghton-Mifflin, Boston, MA, 1970.<br>COMMENTS: Teacher resource which covers some areas of Gr 9. Exercises. A few chapters not relevant, outdated. | 9 | T | X | | X | X |
| 510<br>H46 | Henderson, D. J. (et al)<br>Basic Mathematics II, Ginn, Toronto, 1975.<br>COMMENTS: Grade 8 & 9 topics. Measurements, graphs, ratios and percents, geometry, numbers and properties. Exercises. | 8-9 | S | X | X | X | |
| 512<br>J32<br>V. 1 | Jacobs, Russell F.<br>Introductory Algebra, Harcourt Brace Jovanovich, NY, 1976.<br>COMMENTS: Text type reference. Students are asked "pivotal questions" in numerous examples. | 9<br>(100) | S | | | | |
| *510<br>K44 | Kelly, B., and Alexander, B.<br>Mathematics 9, Addison-Wesley, Toronto, 1981.<br>COMMENTS: Listed by Manitoba Textbook Bureau. SI metric, exercises. Related to life. | 9 | S | | | | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| *510<br>H68<br>V. 9 | Lunney, J. (et al)<br>Mathematics 9, Houghton-Mifflin, Toronto, 1986.<br>COMMENTS: Text: listed by Manitoba Textbook Bureau. SI Metric. Exercises. Related to life. | 9 | S | X | | | |
| *512<br>N53e | Nichols, Eugene D.<br>Modern Elementary Algebra & Geometry, Holt, Rinehart and Winston, Toronto, 1971.<br>COMMENTS: Previously approved Grade 9 text; outdated. Exercises. | 9 | S | | | X | |
| 512<br>G45 | Preparing for Algebra, Encyclopedia Britannica Press, Chicago, IL, 1964.<br>COMMENTS: A programmed learning course in beginning algebra. | 9<br>(100) | | | | | |
| 510<br>R53<br>V. 3 | Ridge, H. L. (et al)<br>Mathscope 3, Prentice-Hall Canada, Scarborough, ON, 1986.<br>COMMENTS: Text: listed by Manitoba Textbook Bureau. Some short computer programs written in Basic. | 9 | S | X | | X | X |
| 513<br>S45 | Sentlowitz, M. and Thelen, J. M.<br>Baseball - A Game of Numbers, Addison-Wesley, Toronto, 1977.<br>COMMENTS: Specialized strategy for teaching/learning number operations, fractions, statistics and graphing. Of limited usefulness in special situations. Exercises. Concrete. Related to life. | 9<br>(G) | S | | | X | X |
| 516.0022<br>S49 | Seymour, D. and Schadler, R.<br>Creative Constructions, Creative Publications, CA, 1974.<br>COMMENTS: Sheets for reproduction and handout. Drill exercises in constructive geometry. Skill building. Elementary designs. Useable. Concrete. | 8-9 | T | | X | X | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.28<br>V47y<br>V. 3 | Vervoort, G. and Mason, D. J.<br>Advanced Calculator Math, Fearon Pitman, Belmont, CA, 1980.<br>COMMENTS: Use of calculators in the teaching of some practical math, statistics and basic math operations. Drill and enrichment. Related to life. | 9<br>(8) | T | | X | X | X |

## MATERIALS FOR GRADES 7-9

Materials which cannot be identified as grade specific but cover wholly or in part, aspects of the Junior High School curriculum.

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>A45 | Allen, Charles L.<br>Supermath #4: Mathematics in Modules, Rand McNally, Chicago, IL, 1976.<br>COMMENTS: Elementary coverage of statistics, geometry, ratios and proportions with illustrations. Restricted resource. Concrete, relates to life. | 7-9 | S | X | X | | X |
| 516<br>M54<br>V. 1 | Bates, T. and Lang, C.<br>MG1: Mathematics in Modules, Rand McNally, Chicago, IL, 1976.<br>COMMENTS: Small monographs on geometry. Of use in jr. high. Math construction, measurement and basic concepts. Teacher resource. Relates to life. | 7-9 | T | X | X | | X |
| 516<br>M54<br>V. 2 | Bates, T. and Lang, C.<br>MG2: Mathematics in Modules, Rand McNally, Chicago, IL, 1976.<br>COMMENTS: Small monographs on geometry. Of use in jr. high. Math construction, measurement and basic concepts. Teacher resource. Relates to life. | 7-9 | T | X | X | | X |
| 516<br>M54<br>V. 3 | Bates, T. and Lang, C.<br>MG3: Mathematics in Modules, Rand McNally, Chicago, IL, 1976.<br>COMMENTS: Small monographs on geometry. Of use in jr. high. Math construction, measurement and basic concepts. Teacher resource. Relates to life. | 7-9 | T | X | X | | X |
| 511.507<br>B69 | Boyle, Patrick J.<br>Graph Gallery, Creative Publication, CA , 1971.<br>COMMENTS: Monograph of worksheets, in graphing. Drill and practice. Interesting results. Useful diversion. Concrete. Relates to life. | 7-9 | | | X | | |
| 512.1<br>H63 | Hockett, Shirley O.<br>Developing Skills for the High School Equivalency Examination (GED) in Mathematics, Barron's Education Series, NY, 1972.<br>COMMENTS: Not adequate with school coverage. Okay for junior high. Abstract. | 7-9 | T | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510.78<br>M69 | Moursund, David<br>Calculators in the Classroom: With Applications, Tom Wiley & Sons, NY, 1981.<br>COMMENTS: Applications oriented. Some exercises of use in the classroom. Introduction to microcomputers. Concrete. Relates to life. | 7-9 | T | X | X | | |
| *510<br>N53 | Nichols, E. D.<br>Pre-Algebra Mathematics, Holt Rinehart & Winston, Toronto, 1970.<br>COMMENTS: Outdated, but some some teachers use this. New Math. British System. Exercises. Relates to life. | 7-9 | T | X | | X | X |
| 510<br>N53t | Nichols, E. D.<br>Pre-Algebra Mathematics, Teacher Edition, Holt, Rinehart & Winston, Toronto, 1970.<br>COMMENTS: Outdated, but some teachers use this. New Math. British System. Exercises. Related to life. | 7-9 | T | X | | X | X |
| 510<br>Nu | Nuffield Foundation<br>Probability & Statistics: Nuffield Mathematics Project, New Gate Press, 1969.<br>COMMENTS: Monograph of use. Not too many exercises or problems. Conceptual. | 7-9 | T/S | X | X | | X |
| 510<br>P35 | Palmer, C. I. and Bibb, S. F.<br>Practical Mathematics, McGraw-Hill, NY, 1970.<br>COMMENTS: Outdated in some areas. Mixed unit systems. Possible resource in some areas. Covers many junior high and some high school math. Abstract. Exercises. | 7-9 | T | X | | X | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 512<br>P75t | Price, J. (et al)<br>Merrill Pre Algebra: Teacher's Edition, Charles E. Merrill, OH, 1982.<br>COMMENTS: Text type resource: Gr 7 and 8 mostly, some 9. Organized well. Misleading title for jr. high math text. Abstract. Relates to life. | 7-9 | | X | | X | |
| *510.712712<br>P76 | Problem Solving Handbook for Grades 7, 8, 9 Mathematics, Department of Education, Winnipeg, Manitoba, 1982.<br>COMMENTS: For problem solving skill development. Many areas of Gr 7-9 used for demonstration. Focus on skill. | 7-9 | T | X | | X | X |
| 513.2<br>R54 | Riedesel, C., and Callahan, L. G.<br>Elementary School Mathematics for Teachers, Harper & Row, NY, 1977.<br>COMMENTS: Teacher enrichment for jr. high math and elementary math. Numbers and geometry. British and metric systems. Concrete. | 7-9 | T | | | X | |
| *372.7045<br>S73<br>Lev7/Lev8/Lev9 | Sharp, J. N. C. (Ed)<br>Starting Points in Mathematics 7, 8, 9, Ginn, Toronto, 1982.<br>COMMENTS: Text listed by Manitoba Textbook Bureau. Popular with teachers. Relates to life. | 7-9 | | X | | | X |
| 372.7045<br>S73t<br>Lev. 7/ Lev. 8/<br>Lev. 9 | Sharp, J. N. C. (Ed)<br>Starting Points in Mathematics 7, 8, 9: Teacher Edition, Ginn, Toronto, 1982.<br>COMMENTS: Support for text: listed by Manitoba Textbook Bureau. Extra activities, tests, enrichment, answers. Teaching strategies. | 7-9 | T | | X | X | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICHMENT |
|---|---|---|---|---|---|---|---|
| 510<br>E38<br>V. 2 | Skills in Mathematics 2: Cambridge Skill Power Series, Revised Edition, Cambridge, The Basic Skills, NY, 1979.<br>COMMENTS: Part coverage of 7-9 curriculum. British and metric mixed. Statistics missing. No consumer related topics. Abstract. | 7-9 | S | | | X | |
| 510<br>S74x<br>V. 1 | Stein, Edwin I.<br>First Course in Fundamentals of Mathematics, Allyn & Bacon, Boston, MA, 1978.<br>COMMENTS: Covers several areas of Grade 7-9 curriculum. Sections on British units may be omitted. Some application areas. Useable. American. Exercises. | 7-9 | S | | | | |
| 510<br>S74xt<br>V. 1 | Stein, Edwin I.<br>First Course in Fundamentals of Mathematics: Teacher's Guide, Allyn & Bacon, Boston, MA, 1978.<br>COMMENTS: Essentially an answer book for text. Skimpy hints on each section. | 7-9 | T | | | X | |
| 510<br>S74x<br>V. 2 | Stein, Edwin I.<br>Second Course in Fundamentals of Mathematics, Allyn & Bacon, Boston, MA, 1978.<br>COMMENTS: Covers several areas of Gr. 7-9. Metric and British units mixed. Useable, American. Application areas outdated. Exercises. | 7-9 | S | | | | |
| 510<br>S74xt<br>V. 2 | Stein, Edwin I.<br>Second Course in Fundamentals of Mathematics: Teacher's Guide, Allyn & Bacon, Boston, MA, 1978.<br>COMMENTS: Essentially an answer book for text. Skimpy hints on each section. | 7-9 | T | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>S74 | Stein, Edwin I.<br>Fundamentals of Mathematics, Allyn & Bacon, Boston, MA, 1980.<br>COMMENTS: Teacher resource for concepts and exercises for a range of jr. high topics. A bit outdated and uses metric and British systems. Abstract. | 7-9 | T | | | | X |
| 510.7<br>V73 | Vrana, Ralph S.<br>The Mathematics Laboratory: A New Teaching Approach, Parker, NY, 1975.<br>COMMENTS: Activities to demonstrate and discover concepts in junior high math. Classroom use. Some require equipment easily made. | 7-9 | T | X | X | | X |

MATERIALS FOR 100, 200, 300, 305

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 512.9<br>A44<br>V. 1 | Algebra Through Applications, National Council of Teachers of Mathematics, Reston, VA, 1976.<br>COMMENTS: A two volume series. Also includes some probability and statistics. | 100 | T | | X | | X |
| 512.9<br>A44<br>V. 2 | Algebra Through Applications, National Council of Teachers of Mathematics, Reston, VA, 1976. | 100 | T | | X | | X |
| 519.5<br>M37 | Auslander, Louis (et al)<br>Mathematics Through Statistics, William and Wilkins, Baltimore, 1973.<br>COMMENTS: General resource. | 305 | S | | | X | |
| 512.1<br>B37 | Barnett, Raymond A.<br>College Algebra, Trigonometry and Analytic Geometry, McGraw-Hill, NY, 1984.<br>COMMENTS: Recommended supplementary text. | 300 | S | | | X | |
| 512<br>B43 | Beiser, Arthur<br>Essential Math for the Sciences: Algebra, Trigonometry and Vectors, McGraw-Hill, NY, 1969.<br>COMMENTS: Condensed "How To" book with a limited number of questions. | 00 | S | | | X | |
| 519.5<br>B47 | Berkeley, Edmund C.<br>Probability and Statistics - An Introduction Through Experiment, Berkely Enterprises, Newtonville, MA, 1961.<br>COMMENTS: Twenty seven experiments to introduce probability. | 305 | T/S | | X | | |
| 510<br>B64 | Bolster, L. Carey<br>Consumer & Career Mathematics, Gage, Toronto, 1980.<br>COMMENTS: Approved textbook. | 204 | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 512<br>A44<br>V. 1 | Corcoran, Clyde L. and Devlin, J.<br>Algebra One, Scott, Foresman, Glenview, IL, 1977.<br>COMMENTS: A general text for 100 and portions of 200. | 100 | S | | | X | |
| 512<br>A44<br>V. 2 | Corcoran, Clyde L. (et al)<br>Algebra Two, Scott, Foresman, Glenview, IL, 1977.<br>COMMENTS: General resource which includes topics from 300. | 200 | S | | | X | |
| 510<br>C76<br>1983 | Crosswhite, F. Joe (et al)<br>Merrill Pre-Calculus Mathematics, Charles E. Merrill, Columbus, OH, 1983.<br>COMMENTS: Advanced topics which lead into calculus courses. | 300 | S | | | X | X |
| 510<br>C76t<br>1983 | Crosswhite, F. Joe (et al)<br>Merrill Pre-Calculus Mathematics, Teacher's Guide and Solutions Manual, Charles E. Merrill, Columbus, OH, 1983.<br>COMMENTS: Step-by-step solutions for all exercises for the text by the same author. | 300 | T | | | X | |
| 519.5<br>D48 | De Santo, C. (et al)<br>Statistics Through Problem Solving, Mathematical Alternatives, NY, 1973.<br>COMMENTS: A programmed approach to elementary statistics. | 305 | S | X | | X | |
| 515.1<br>D45<br>1979 | Del Grande, J. and Duff, G.<br>Calculus: Elements of Modern Mathematics, Gage, Toronto, 1979.<br>COMMENTS: Recommended text. Coverage of curriculum 305 incomplete. | 305 | T/S | X | | X | |
| 510<br>D44 | Del Grande, J. and Egsgard, J. C.<br>Mathematics II, Gage, Toronto, 1979.<br>COMMENTS: General Algebra text with several chapters on Euclidean Geometry and bectors, Includes topics from 200. | 100 | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICHMENT |
|---|---|---|---|---|---|---|---|
| 512.13<br>A44 | Dolciani, Mary and Sorgenfrey, R.<br>Algebra Two and Trigonometry, Houghton-Mifflin, Toronto, 1980.<br>COMMENTS: Covers topics in 300 as well. | 200 | S | | | X | |
| *512<br>A45t<br>Bk. 1<br>1986 | Dolciani, Mary (et al)<br>Algebra: Structure & Method Bk 1 - Teachers Edition, Houghton-Mifflin Boston, 1986.<br>COMMENTS: Text fits 100 curriculum closely. Recommended by teachers. Contains excellent teaching suggestions. | 100 | T | X | | X | |
| 510<br>D68<br>V. 1 | Dottori, Dino (et al)<br>Foundations of Mathematics for Tomorrow: An Introduction, McGraw-Hill Ryerson, Toronto, 1977.<br>COMMENTS: Geometry topics and statistics are included in this general algebra text. | 100 | S | | | X | |
| *510<br>D68<br>V. 2 | Dottori, Dino (et al)<br>Foundations of Mathematics for Tomorrow: Intermediate, McGraw-Hill Ryerson, Toronto, 1978.<br>COMMENTS: A chapter on vectors is included in this general algebra text. | 200 | S | | | X | |
| *510<br>D68<br>V. 3 | Dottori, Dino (et al)<br>Foundations of Mathematics for Tomorrow: Senior, McGraw-Hill Ryerson, Toronto, 1979.<br>COMMENTS: General resource with numerous examples and exercises. | 300 | S | | | X | |
| 510<br>E27<br>Bk. 1 | Ebos, Frank (et al)<br>Mathematics: Principles & Process 1, Nelson, Scarborough, ON, 1986.<br>COMMENTS: General text with chapter on investments and annuities that has current information. | 300 | T/S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICHMENT |
|---|---|---|---|---|---|---|---|
| 510<br>E27<br>Bk. 2 | Ebos, Frank (et al)<br>Advanced Senior Mathematics Principles & Process 12, Scarborough, ON, 1986.<br>COMMENTS: General text with good examples and adquate number of exercises. | 300 | S | | | X | |
| 510<br>E25<br>Lev. 4 | Ebos, Frank and Tuck, Bob<br>Math 1s/4, Nelson, Toronto, 1980.<br>COMMENTS: Approved text. | 100 | S | | | X | |
| 510<br>E25t<br>Lev. 4 | Ebos, Frank and Tuck, Bob<br>Math 1s/4, Nelson, Toronto, 1980.<br>COMMENTS: Teachers edition of Math 1s/4. | 100 | T | | | X | |
| 510<br>E25<br>Lev. 5 | Ebos, Frank and Tuck, Bob<br>Math 1s/5, Nelson, Toronto, 1980.<br>COMMENTS: Approved text. | 200 | S | | | X | |
| 510<br>E25t<br>Lev. 5 | Ebos, Frank and Tuck, Bob<br>Math 1s/5, Nelson, Toronto, 1970.<br>COMMENTS: Teachers edition of Math 1s/5. | 200 | T | | | X | |
| 515<br>C34 | Elliott, H. A. (et al)<br>Calculus, Complex Numbers and POLAR Coordinates, Holt, Rinehart & Winston, Toronto, ON, 1972.<br>COMMENTS: Adequate exercises, chapter summaries and reviews. | 305 | T/S | | | X | |
| 510<br>C65 | Elliott, H.A. (et al)<br>Contemporary Mathematics 6, Holt Rinehart & Winston, Toronto, 1971.<br>COMMENTS: General resource for most topics in 300. | 300 | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>M41 | Elliott, H.A. (et al)<br>Math 31, Holt, Rinehart and Winston, Toronto, 1984.<br>COMMENTS: A text which contains most of the calculus topics in the 305 curriculum. Currently in use in Alberta. | 305 | S | | | X | |
| 512.5<br>V42 | Elliott,H. A. (et al)<br>Vectors & Matrices, Holt, Rinehart and Winston, Toronto, 1966.<br>COMMENTS: Student is led from a study of geometric vectors to the introduction to the abstract idea of vector spaces. | 00 | S | | | | |
| *512.13<br>F57<br>1982 | Fisher, Robert C. and Zieber, Allen D.<br>Integrated Algebra & Trigonometry 3rd Edition, Prentice Hall, Englewood Cliffs, NJ, 1982.<br>COMMENTS: Previously approved text. General resource. | 300 | S | | | X | |
| 515.83<br>F53 | Flanders, H. and Price, Justin J.<br>Elementary Functions and Analytic Geometry, Academic Press, NY, 1973.<br>COMMENTS: General resource on functions. There are also chapters devoted to solid analytic geometry, complex numbers and induction and the binomial theorem. | 300 | S | X | | X | X |
| 512.13<br>F54 | Fleming, W. and Varberg, D.<br>Algebra & Trigonometry, Prentice-Hall, Englewood Cliffs, NY, 1980.<br>COMMENTS: Approved text. | 300 | S | | | X | |
| *512.13<br>F54<br>1984 | Fleming, W. and Varberg, D.<br>Algebra & Trigonometry, Prentice-Hall, Englewood Cliffs, NY, 1984.<br>COMMENTS: New edition of approved texts. | 300 | S | | | X | |
| 512.13<br>F54wb | Fleming, W. and Varberg, D.<br>Algebra & Trigonometry: Study Guide , Prentice-Hall, Englewood Cliffs, NY, 1980. | 300 | S | | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| *512.13<br>F54t | Fleming, W. and Varberg, D.<br>Algebra & Trigonometry: Instructors Manual, Prentice-Hall, Englewood Cliffs, NY, 1980.<br>COMMENTS: Teachers Guide, includes chapter tests. | 300 | T | | | X | |
| 512.13<br>F54t<br>1984 | Fleming, W. & Varberg, D.<br>Algebra & Trigonometry: Instructors Manual, Prentice Hall, Englewood Cliffs, NY, 1984. | 300 | T | | | | |
| *512.13<br>F63 | Foerster, Paul A.<br>Algebra & Trigonometry: Functions and Applications, Addison-Wesley, Menlo Park, CA, 1984.<br>COMMENTS: Recommended supplementary text. | 300 | | | | X | X |
| 512.13<br>F63t | Foerster, Paul A.<br>Instructors Commentary for Algebra & Trigonometry, Addison-Wesley, Menlo Park, CA, 1980. | 300 | T/S | | | | X |
| 512<br>F68 | Foster, A. G. (et al)<br>Merrill Algebra One, Merrill, Columbus, OH, 1979.<br>COMMENTS: General text; has support materials, covers much of the curriculum. | 100 | S | | | X | |
| 512<br>F68t<br>1983 | Foster, A. G. (et al)<br>Merrill Algebra One: Teachers Annotated Edition, Merrill, Columbus, OH, 1983. | 100 | T | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 512<br>F68s | Foster, A.G. (et al)<br>Spirit Duplicating Masters for Merrill Algebra One, Merrill, Columbus, OH, 1979.<br>COMMENTS: Duplicating masters keyed to the text by the same author. | 100 | T | | | X | |
| 516<br>F68t | Foster, A. G. (et al)<br>Teachers Guide and Te ts for Merrill Algebra One, Merrill, Columbus, OH, 1981. | 100 | T | | | X | |
| 512<br>F68x | Foster, A. G. (et al)<br>Merrill Algebra Two with Trigonometry, Merrill, Columbus, OH, 1979.<br>COMMENTS: Good general reference on many of the topics in 200 and 300 with step-by-step examples. | 200 | S | | | | |
| 512<br>F68xt<br>1983 | Foster, A. G.<br>Merrill Algebra Two with Trigonometry: Teachers Annotated Edition, Merrill, Columbus, OH, 1983. | 200 | T | | | X | |
| 512<br>F68xs | Foster, A.G. (et al)<br>Spirit Duplicating Masters for Merrill Algebra Two with Trigonmetry, Merrill, Columbus, OH, 1979. | 200 | T | | | | |
| 512<br>F68xt | Foster, A.G. (et al)<br>Teachers Guide and Tests for Merrill Algebra Two with Trigonometry, Merrill, Columbus, OH, 1979. | 00 | T | | | X | |
| 516<br>G73 | Graening, J.<br>Geometry: A Blended Approach, Merrill, Columbus, OH, 1980.<br>COMMENTS: A blend of traditional, transfer material, coordinate and vector approaches to geometry. | 100 | S | | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 516<br>G73t | Graening, J.<br>Geometry: A Blended Approach: Teachers Annotated Edition, Merrill, Columbus, OH, 1980. | 100 | T | | | X | |
| 516<br>G73d | Graening, J.<br>Duplicating Masters for Merrill Geometry: A Blended Approach, Merrill Columbus, OH, 1980. | 100 | T | | | X | |
| 512<br>G65 | Grondin, W. R. and Sohmer, B.<br>Intermediate Algebra and Analytic Geometry Made Simple, Doubleday, NY, 1959.<br>COMMENTS: A self-study guide with notes and practice questions. | 200 | S | | | X | |
| 512.9042<br>G76 | Gross, Herbert I.<br>Algebra by Example, D.C. Heath, Lexington, MA, 1978.<br>COMMENTS: Introduction to Algebra which a student could work through independently. | 100 | S | | X | X | |
| 512.9042<br>G76t | Gross, Herbert I.<br>Algebra by Example: Instructors Resource Manual, D. C. Heath, Lexington, MA, 1978.<br>COMMENTS: Teaching notes and tests. | 100 | T | | | X | |
| 512.9042<br>G76s | Gross, Herbert I.<br>Algebra by Example: Students Solution Manual, D. C. Heath, Lexington, MA, 1978. | 100 | S | | | X | |
| 515<br>H43 | Heckenbach, A. J. (et al)<br>Elementary Functions: An Approach to Pre Calculus Mathematics, MacMillan, NY, 1970.<br>COMMENTS: Numerous exercises, with theorems and definitions highlighted. Contains polynomial, circular, exponential functions. Also contains some topics from 305. | 300 | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 372.7045<br>S73<br>1983<br>V. 10 | Henderson, J. D.<br>Starting Points in Math 10, Ginn, Toronto, 1983.<br>COMMENTS: General text with good examples and ample exercises. A continuation of the starting points series from junior high. Some topics from 200 are also covered. | 100 | | | | | |
| 372.7045<br>S73t<br>1983<br>V. 10 | Henderson, J.D.<br>Starting Points In Math: Teachers Edition, Ginn, Toronto, 1983. | 100 | T | | | X | |
| 511.3<br>H63 | Hoernes, Gerhard E. and Heilweil, M.F.<br>Introduction to Boolean Algebra & Logic Design, McGraw-Hill, NY, 1964.<br>COMMENTS: Structured for individualized study. | 00 | S | | | X | X |
| 511.3<br>H63t | Hoernes, Gerhard E. and Heilweil, M.F.<br>Introduction to Boolean Algebra & Logic Design, Teachers Guide, McGraw-Hill, NY, 1964. | 00 | T | | | X | X |
| 516<br>H63 | Hoffer, Alan R.<br>Geometry: A Model of the Universe, Addison-Wesley, Menlo Park, CA, 1979.<br>COMMENTS: First half of text contains descriptive geometry followed by deductive proofs and vectors. Topics from 200 are also included. | 100 | S | | | X | |
| 512.13<br>H55 | Hungerford, T. W. and Mercer, R.<br>Algebra & Trigonometry, Saunders, Philadelphia, PA, 1982.<br>COMMENTS: General resource. | 300 | S | | | X | |
| *510<br>J3 | Jacobs, Harold R.<br>Mathematics: A Human Endeavour, W. H. Freeman, NY, 1982.<br>COMMENTS: A popular supplement with interesting motivating activities in sequences and probability. | 00 | T | X | X | X | X |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| *512.9042<br>J32 | Jacobs, Harold R.<br>Elementary Algebra, W. H. Freeman & Co., NY, 1979.<br>COMMENTS: Primarily 100 resource with quadratic equations and sequence sections from 200. | 100 | S | X | | X | |
| 512<br>J32<br>V. 1 | Jacobs, Russell F.<br>Introductory Algebra 1, Harcourt, Brace, Jovanovich, NY, 1976.<br>COMMENTS: Good use of examples. | 100 | S | | | | |
| 512<br>J32<br>V. 2 | Jacobs, Russell F.<br>Introductory Algebra 2, Harcourt, Brace, Jovanovich, NY, 1976.<br>COMMENTS: Good use of examples | 100 | S | | | | |
| 512.13<br>J63<br>1982 | Johnson, R.E. (et al)<br>Algebra and Trigonometry, Addison-Wesley, Menlo Park, CA, 1982. | 300 | S | | | X | |
| 512.13<br>J63t<br>1982 | Johnson, R.E. (et al)<br>Algebra and Trigonometry; Teachers Edition, Addison-Wesley, Menlo Park, CA, 1982.<br>COMMENTS: Circular functions and some topics from 200 are included in this text-type reference. | 300 | T | | | X | |
| 516<br>J87 | Jurgenson, R. (et al)<br>Modern Basic Geometry, Houghton-Mifflin, Boston, MA, 1975.<br>COMMENTS: Topics from grades 9, 10, 11. | 00 | T | | | | |
| 516<br>J87x | Jurgenson, R. (et al)<br>Geometry, Houghton-Mifflin, Boston, MA, 1980.<br>COMMENTS: general text with multiple choice chapter tests covering some topics from 200 as well as 100. | 100 | T | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>B64xs | Bolster, Carey L.<br>Consumer & Career Mathematics - Solution Key, Gage, Toronto, 1982.<br>COMMENTS: Solutions key for previous text. | 204 | T | | | X | |
| 515<br>B73 | Brant, V. and Kudy, M.<br>Relations, Functions & Graphs, Holt, Rinehart & Winston, NY, 1967.<br>COMMENTS: Examples and numerous exercises in determining domain and range, graphing inequalities, absolute value functions and functional notation. | 200 | T | | | X | X |
| 510<br>P38<br>V. 3 | Carter, J., (et al)<br>Mathematics Alive 3, Copp Clark, Toronto, 1978.<br>COMMENTS: Linear function, Circular functions and vector chapters are included. See Paterson, R. for Volumes 1 & 2. | 200 | S | | | X | |
| 510<br>P38<br>V. 4 | Carter, J., (et al)<br>Mathematics Alive 4, Copp Clark, Toronto, 1979.<br>COMMENTS: In addition to topics from 300, Investments and Statistics chapters are included. | 300 | S | | | X | |
| 510<br>C53 | Clarkson, David M.<br>General Mathematics, American Book Company, NY, 1980.<br>COMMENTS: High interest, low ability materials. | 04 | S | | X | | |
| 510<br>C53t | Clarkson, David M.<br>General Mathematics: Teachers Annotated Edition, American Book Co., NY, 1980.<br>COMMENTS: Teacher edition has answers and teaching hints. | 04 | T | | | X | |
| 512<br>A43 | Coleman, A, J., (et al)<br>Algebra, Gage, Toronto, 1979.<br>COMMENTS: A text which includes Probability, Binomial Theorem, vectors, matices and complex numbers. | 305 | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 516<br>G46x | Keedy, Mervin (et al)<br>Geometry for Today, D.C. Heath, Lexinton, MA, 1981.<br>COMMENTS: Approved text, topics from 100 are also included. | 200 | S | | | | |
| 516<br>G46t | Keedy, Mervin (et al)<br>Geometry for Today: Teachers Edition, D. C. Heath, Lexington, MA, 1981.<br>COMMENTS: Approved text. | 200 | T | | | X | |
| 510<br>K44x | Kelly, B. and Alexander, B.<br>Mathematics 10, Addison-Wesley, Menlo Park, CA, 1982.<br>COMMENTS: General text. | 100 | S | | | X | |
| 519<br>Ki | King, A.C. and Read, C.B.<br>Pathways to Probability, Holt, Rinehart & Winston, NY, 1963.<br>COMMENTS: A history of the mathematics of certainty and chance. | 205 | T | | | | |
| 510<br>M38<br>V. 4 | Krysak, W. and Bye, M.<br>Math Probe 4, Holt, Rinehart & Winston, Toronto, 1973.<br>COMMENTS: A wide range of topics including stock market tables, annuities trigonometry with a good chapter on sequences from 300. | 200 | S | | | X | |
| 519.5<br>L54 | Lim, R.Y. and Reddin, W. J.<br>Problems in Economic & Business Statistics for Canadian Students, Tribune Press, Sackville, NB, 1971.<br>COMMENTS: Problems relating to Canadian statistics in workbook form. | 305 | S | | | | |
| 510.0212<br>M38 | Mathematics Tables | 300 | S | | | | |
| 512<br>M22 | McHale, J. J. and Witzke, Paul<br>Advanced Algebra, Addison-Wesley, Menlo Park, CA, 1972.<br>COMMENTS: A programmed instruction approach to exponents, radicals, quadratic equations, analytic geometry and logarithms. | 200 | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>M4 | Meserve, B. and Sobel, M.<br>Contemporary Mathematics, Prentice-Hall, Englewood Cliffs, NJ, 1972.<br>COMMENTS: General resource with helpful "pedogogical considerations" in many sections. | 100 | T/S | | | X | |
| 510<br>M54 | Miller, C. and Heeven, Vern<br>Mathematical Ideas - 4th Edition, Scott, Foresman, Glenview, IL, 1982.<br>COMMENTS: General resource on beginning algebra, non euclidean geometry and statistics. | 100 | S | | | X | |
| 516<br>M65t<br>1971 | Moise, E. and Downs, F.<br>Geometry: Teachers Edition, Addison-Wesley, Menlo Park, CA, 1971. | 100 | T | | | | |
| *516<br>M65<br>1982 | Moise, E. and Downs, F.<br>Geometry, Addison-Wesley, Menlo Park, CA, 1982.<br>COMMENTS: The latest revision of previously approved text. General resource which contains topics from 200 as well as 100. | 100 | S | | | | |
| *512.13<br>M85 | Munem, M.A. and Foulis, D.<br>Algebra & Trigonometry, Worth, NY, 1982.<br>COMMENTS: Approved text, good accompanying support material. | 300 | S | | | X | |
| 512.13<br>M85s | Munem, M. A. and Foulis, D.<br>Solution Manual to accompany Algebra & Trigonometry, Worth, NY, 1982. | 300 | T/S | | | X | |
| 512.13<br>M85wb | Munem, M. A. and Foulis, D.<br>Study Guide to Accompany Algebra & Trigonometry, Worth, NY, 1982.<br>COMMENTS: Programmed learning style | 300 | S | | | X | |
| 519.5<br>N48<br>1983 | Newmark, Joseph<br>Statistics and Probability in Modern Life, Holt Rinehart & Winston, NY, 1983.<br>COMMENTS: Approved text. | 305 | S | | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 519.5<br>N49 | Newton, David<br>The Use & Misuse of Statistics, J. Weston Walch, Portland, OR, 1973.<br>COMMENTS: Examples of ways in which statistics are used to misrepresent information. | 305 | T | | | | X |
| 512<br>H64<br>1982 | Nichols, Eugene; Edwards, M; Garland, E.H; Hoffman, S.A; Mamary, A; Palmer, W.F.<br>Holt Algebra 1, Holt, Rinehart, Winston, NY, 1982.<br>COMMENTS: Supplementary resource follows 100 curriculum closely. | 100 | S | X | | X | |
| 512<br>H64<br>1986 | Nichols, Eugene; Edwards, M; Garland, E.H; Hoffman, S.A; Mamary, A; Palmer, W.F.<br>Holt Algebra 1, Holt, Rinehart, Winston, NY, 1986.<br>COMMENTS: Recommended by teachers, this supplementary resource follows 100 curriculum closely. | 100 | S | X | | X | |
| 512.13<br>H64 | Nichols (et al)<br>Holt Algebra 2 with Trigonometry, Holt, Rinehart, Winston, NY, 1982. | 200 | S | | | X | |
| 512.13<br>H64<br>1982 | Nichols (et al)<br>Holt Algebra 2 with Trigonometry: Skill Masters, Holt, Rinehart, Winston, NY, 1982.<br>COMMENTS: Exercises keyed to 1982 text. | 200 | T | | | | |
| 512.13<br>H64 te | Nichols (et al)<br>Holt Algebra 2 with Trigonometry: Tests, Holt, Rinehart, Winston, NY, 1982.<br>COMMENTS: Tests and keys. | 200 | T | | | X | |
| 512.13<br>H64<br>1986 | Nichols, (et al)<br>Holt Algebra 2 with Trigonometry, Holt, Rinehart, Winston, NY, 1986.<br>COMMENTS: Contains some topics from 300. | 200 | S | | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 516<br>H64t | Nichols, E. (et al)<br>Holt Geometry, Teachers Edition, Holt, Rinehart, Winston, NY, 1978.<br>COMMENTS: A general text that proceeds from an informal and intuitive level to deduction, formal proofs. Topics from 200 are also included. | 100 | S | | | | |
| *512<br>N53<br>1970 | Nichols, E; Helmer, R. and Garland, E.<br>Modern Intermediate Algebra, Holt Rinehart, Winston, Toronto, 1970.<br>COMMENTS: A popular general text no longer available. The new Holt Algebra Series by same author is similar in approach and content. Topics from 100 are also included. | 200 | S | | | X | |
| 512<br>N53t | Nichols, Eugene; Heimer, R; Garland, E.H.<br>Modern Intermediate Algebra: Teachers Edition, Holt, Rinehart, Winston, NY, 1969.<br>COMMENTS: Previously approved textbook. Good examples and exercies. | 200 | T | | | X | |
| 512.6<br>N58 | Niven, Ivan<br>Mathematics of Choice: Or, How to Count Without Counting, Random House, NY, 1965.<br>COMMENTS: Permutations, Combinations, Binomial Expansion, and Induction are included. | 300 | T | | | | X |
| 510<br>P38<br>V. 1 | Paterson, R; Clenman, M; Clarke, R. and Bates, W. W.<br>Mathematics Alive, Vol. 1, Copp Clark, Toronto, 1975.<br>COMMENTS: Basic algebra, geometry and coordinate geometry. | 100 | S | | | X | |
| 510<br>P38<br>V. 2 | Paterson, R. and Carter<br>Mathematics Alive, Vol. 2, Copp Clark, Toronto, 1975.<br>COMMENTS: Functions, quadratics, and geometry topics included. | 200 | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| K<br>512<br>P76 | Proctor, C. M. and Lacy, J.<br>Algebra Skills Kit, Scholastic Research Associates, SRA, Chicago, IL, 1969.<br>COMMENTS: The kit provides diagnostic tests, progress tests, brief explanations and exercises to give student practice in basic algebra skills. Skills include work in integers, rational numbers, polynomial equations, rational expressions, radical expressions, linear and quadratic equations, graphing, trigonometry. | 00 | T | | X | X | |
| 516.3<br>P76 | Protter, Murray H.<br>Analytic Geometry, Addison-Wesley, Reading, MA, 1975.<br>COMMENTS: Extensive treatment of the topic including slope of a line, distance forumla, conic sections and vectors in three dimensions. | 300 | S | | | X | |
| 510<br>P94 | Pulsinelli, L. R.<br>Living Mathematics: A Survey, Prentice-Hall, NJ, 1982.<br>COMMENTS: A general text with some topics included from 305. | 300 | S | | | X | |
| 516<br>R46 | Rhoad, R.(et al)<br>Geometry for Enjoyment and Challenge, McDougal, Little & Co., Evansten IL, 1981.<br>COMMENTS: This general text is divided into short lessons with graded exercises after each one. It includes topics from 200 as well as 100. | 100 | S | | | X | |
| 512<br>S35 | Sanders, P. and McEntire, A.<br>Elementary Mathematics: A Logical Approach, International Textbook, Scranton, PA, 1969.<br>COMMENTS: Chapters on linear programming, matrices, beginning statistics are included in this general text. | 305 | S | | | X | X |
| 516<br>P74 | Shanks, M. (et al)<br>Pre-Calculus Mathematics, Addison-Wesley, Menlo Park, CA, 1972.<br>COMMENTS: General reference which has been recommended by the writing committee for the half-course option in advanced topics. | 305 | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 516<br>P74t | Shanks, M. (et al)<br>Pre Calculus Mathematics: Teachers Commentary, Addison-Wesley, Menlo Park, CA, 1972.<br>COMMENTS: Teaching notes and suggestions to support text. | 305 | T | | | | |
| 516<br>P74s | Shanks, M. (et al)<br>Pre Calculus Mathematics: Solutions Manual, Addison-Wesley, Menlo Park, CA, 1972.<br>COMMENTS: Step-by-step solutions for exercises in text. | 305 | T/S | | | X | |
| *516<br>S64 | Silverberg, J. (et al)<br>Geometry: Step By Step, Winnipeg, MB, 1979.<br>COMMENTS: Approved text. | 100 | S | | | | |
| 510<br>H37<br>V1 | Sobel, Max A. (et al)<br>Harper & Row Algebra One, Harper & Row, NY, 1985.<br>COMMENTS: A general text which contains numerous examples and some topics from 200. First of a two volume set. | 100 | S | X | | X | |
| 510<br>H37<br>V. 2 | Sobel, Max A. (et al)<br>Harper & Row Algebra Two with Trigonometry, Harper & Row, NY, 1985.<br>COMMENTS: Contains most of the topics from 300 including Circular Functions. | 300 | S | X | | X | |
| 512<br>S74 | Stein, Edwin I.<br>Algebra in Easy Steps, Allyn & Bacon, Boston, MA, 1982.<br>COMMENTS: General Algebra text for 100 and 200 with diagnostic tests and numerous examples. | 100 | S | | | X | |
| 512<br>S74t | Stein, Edwin I.<br>Algebra in Easy Steps: Teachers Guide, Allyn & Bacon, Boston, MA, 1982.<br>COMMENTS: Answers to all exercises in text. | 100 | T | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>S75<br>1980 | Stein, Edwin I.<br>Stein's Refresher Mathematics, Annotated Teachers Edition<br>Allyn & Bacon, Newton, MA, 1980.<br>COMMENTS: An excellent resource for remediation with diagnostic tests and stated objectives for each lesson for grades 7-10. | G | T | | | X | |
| 510<br>S75<br>198 | Stein, Edwin I.<br>Stein's Refresher Mathematics Workbook, New Edition, Allyn & Bacon, Newton, MA, 1986.<br>COMMENTS: Over 200 worksheets keyed to text. | G | T | X | | X | |
| 515.83<br>S68 | Swokowski, Earl W.<br>Elementary Functionswith Coordinate Geometry, Prindle, Weber, Schmidt, Boston, MA, 1971.<br>COMMENTS: General resource with sections on polar coordinates and the three dimensional coordinate system. | 300 | S | | | X | X |
| *512.13<br>P74 | Swokowski, E. W.<br>A Precalculus Course in Algebra & Trigonometry, Prindle, Weber, Schmidt, Boston, 1976.<br>COMMENTS: Recommended supplementary text in Manitoba Textbook Bureau catalogue. | 300 | S | | | X | |
| *512.9<br>U85 | Travers, K. J; Dalton, L.C; Brunner, V.E. and Taylor, A.R.<br>Using Algebra, Doubleday, Toronto, 1979.<br>COMMENTS: General resource. | 100 | S | | | X | |
| 512.9<br>U85t | Travers, K. (et al)<br>Using Algebra, Teachers Edition; Doubleday, Toronto, 1979. | 100 | T | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| *512.9<br>U85v | Travers, K. (et al)<br>Using Advanced Algebra, Doubleday, Toronto, 1977. | 300 | S | | | X | |
| 512.9<br>U85vs | Travers, K. (et al)<br>Using Advanced Algebra: Solutions Key, Doubleday, Toronto, 1977. | 300 | T | | | X | |
| 512.9<br>U85vt | Travers, K. (et al)<br>Using Advanced Algebra: Teachers Edition, Doubleday, Toronto, 1977. | 300 | T | | | X | |
| 519.5<br>T75 | Triola, Mario F.<br>Elementary Statistics, Benjamin/Cummings Publishing, Menlo Park, CA, 1986.<br>COMMENTS: Numerous examples are taken from a variety of applications. Interesting studies. | 305 | T/S | X | | | |
| 519.5<br>T75s | Triola, Mario F.<br>Student Solutions Manual for Elementary Statistics, Benjamin/Cummings Publishing, Menlo Park, CA, 1986. | 305 | T/S | | | X | |
| 519.5<br>T75t | Triola, Mario F.<br>Instructors Guide to Elementary Statistics, Benjamin/Cummings Publishing, Menlo Park, CA, 1986.<br>COMMENTS: This guide includes quizzes, exams, and answers to quizzes in the text. | 305 | T | | | X | |
| 516<br>G44 | Ulrich, J.F. (et al)<br>Geometry, Harcourt, Brace, Jovanovich, NY, 1978.<br>COMMENTS: A general text which covers most of the topics in curriculum from 100 and 200. | 100 | S | | | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICHMENT |
|---|---|---|---|---|---|---|---|
| 512<br>U85 | Usiskin, Zalman P.<br>Advanced Algebra with Transformations & Applications, Laidlaw, River Forest, IL, 1976.<br>COMMENTS: General resource. | 300 | S | | | X | |
| *510<br>V35 | Vance, E.<br>An Introduction to Modern Mathematics, Addison-Wesley, Reading, MA, 1968.<br>COMMENTS: A previously recommended text; contains good examples and exercises. | 300 | S | | | X | |
| 512<br>S54<br>V. 1 | Vogeli, B. (et al)<br>Algebra One, Silver Burdett, Morristown, NY, 1976. | 100 | S | | | X | |
| 512<br>S54<br>V. 2 | Vogeli, B. (et al)<br>Algebra Two and Trigonometry, Silver Burdett, Morristown, NJ, 1976.<br>COMMENTS: General text (includes circular functions). | 300 | S | | | X | |
| 510<br>V37 | Vannatta, G.D. and Crosswhite, F. J.<br>Advanced Mathematical Concepts, Merrill, Columbus, OH, 1971.<br>COMMENTS: General resource which includes circular functions | 300 | S | | | X | |
| 510<br>V37s | Vannatta, G.D. and Crosswhite, F. J.<br>Advanced Mathematical Concepts, Solutions Manual and Teachers Guide, Merrill, Columbus, OH, 1971. | 300 | T | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 519.1<br>We | Weaver, Warren<br>Lady Luck: The Theory of Probability, Doubleday & Co., NY, 1963.<br>COMMENTS: A survey of the theory of probability. | 305 | T/S | | | | X |
| 516<br>W44 | Wells, D. (et al)<br>Using Geometry, Laidlaw Bros, River Forest, IL, 1978.<br>COMMENTS: A general text which covers most of curriculum in 200 as well as 100. | 100 | S | | | X | |
| 516<br>W44t | Wells, D. (et al)<br>Using Geometry: Teachers Edition, Laidlaw Bros, River Forest, IL, 1978.<br>COMMENTS: A general text which covers most of curriculum in 200 as well as 100. | 100 | T | | | X | |
| 510<br>W53<br>V. 1 | Wigle, R. (et al)<br>Mathematical Pursuits One, MacMillan, Toronto, 1974.<br>COMMENTS: The four volume series based upon the school mathematic project in Great Britain. Numerous examples and exercises. Answers to the chapter are colour coded and appear immediately after the chapter. | 00 | T | | X | | |
| 510<br>W53<br>V. 2 | Wigle, R. (et al)<br>Mathematical Pursuits Two, MacMillan, Toronto, 1974.<br>COMMENTS: A further development of topics in Book One, with some trigonometry and linear equations. | 00 | S | | X | X | |
| 510<br>W53<br>V. 3 | Wigle, R. (et al)<br>Mathematical Pursuits Three, MacMillan, Toronto, 1977.<br>COMMENTS: A further development of trigonometry from Book Two, including application to Vectors and analytic Geometry topics from 300. | 200 | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>W53<br>V. 4 | Wigle, R. (et al)<br>Mathematical Pursuits Four, MacMillan, Toronto,<br>COMMENTS: Includes binomial theorems and introduction to Calculus topics from 305. | 300 | S | | X | X | |
| 516<br>W55<br>1974 | Wilcox, Marie S.<br>Geometry: A Modern Approach, Addison-Wesley, Menlo Park, CA, 1974.<br>COMMENTS: A previously approved text for 200 as well as 100. | 100 | S | | | | |
| 519<br>W55<br>1977 | Willoughby Stephen S.<br>Probability and Statistics, GLC Publishers, Agincourt, ON, 1977.<br>COMMENTS: A general resource. | 305 | S | | | X | |
| 510<br>Y85 | Yunker, Lee<br>Merrill Advanced Mathematical Concepts, Merrill, Columbus, OH, 1981.<br>COMMENTS: General resource math 305 as well as math 300 with good examples and numerous questions. | 300 | S | | | X | |
| 510<br>Y85s | Yunker, Lee<br>Merrill Advanced Mathematical Concepts, Solutions Manual and Teachers Guide, Merrill, Columbus, OH, 1981. | 300 | T | | | X | |

MATERIALS FOR 101 201 301

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 512.9<br>B74 | Brett, W. (et al)<br>Introductory Mathematics: An Applied Approach, Canfield Press, San Francisco, CA, 1971.<br>COMMENTS: Algebra presented through applications. | 01 | S | | X | X | |
| 510<br>M38<br>V. 2 | Bye, M. and Elliott, H. A.<br>Math Probe 2, Holt, Rinehart, Winston, Toronto, 1973.<br>COMMENTS: Activity-oriented text including Relations, Geometry and some business math. | 301 | S | | X | X | |
| 510<br>M38<br>V. 3 | Bye, M. and Elliott, H. A.<br>Math Probe 3, Holt, Rinehart, Winston, Toronto, 1973.<br>COMMENTS: Topics include graphs, linear equalities and inequalities and some business math. | 301 | S | | X | X | |
| 513<br>C37 | Carlaw, Ray A. and Raithby, Paul T.<br>Applying Mathematics, 2nd Edition, McGraw-Hill Ryerson, Toronto, 1981.<br>COMMENTS: Arithmetic drills and problems with application to wages, budgets, graphs. | 101 | T | | | | |
| *510<br>M37fo<br>Bk. 3<br>1985 | Carli, E. (et al)<br>Mathematics For a Modern World Bk 3, Gage, Toronto, 1985.<br>COMMENTS: New edition includes installment buying, business and Geometry Options. | 201 | S | | | X | |
| 510<br>Co | Cooke, Nelson M.<br>Basic Mathematics for Electronics, McGraw-Hill, NY, 1970.<br>COMMENTS: A resource for students of electronics with chapter on Boolean Algebra. | 201 | T/S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICHMENT |
|---|---|---|---|---|---|---|---|
| *510<br>D43f | Dean, J. E. and Moore, G. E.<br>Fundamentals of Mathematics for Secondary Schools, Holt, Rinehart & Winston, Toronto, 1966.<br>COMMENTS: Old text. Used for exercises by a number of teachers. | 301 | T | | | X | |
| 513.93<br>D65 | Dool, J. H.<br>Business Machine Operations & Applications, McGraw-Hill Ryerson, Toronto, 1977.<br>COMMENTS: Good resource for 10 key calculator option in 201 | 201 | T/S | | | | |
| 510<br>A47<br>Bk. 1 | Dottori, D. (et al)<br>Applied Mathematics for Today: An Introduction, McGraw-Hill Ryerson, Toronto, 1980.<br>COMMENTS: General resource covering some of the topics in all "01" levels. | 201 | S | | | X | |
| *510<br>A47<br>Bk. 2 | Dottori, D.<br>Applied Mathematics for Today: Intermediate, McGraw-Hill, Ryerson, Toronto, 1976.<br>COMMENTS: 301 topics are also included. | 201 | S | | | X | |
| *510<br>A47<br>Bk. 3 | Dottori, D. (et al)<br>Applied Mathematics for Today: Senior, McGraw-Hill, Ryerson, Toronto, 1977.<br>COMMENTS: Includes investigations for student work. | 301 | S | | X | X | |
| *510<br>E26<br>Bk. 1 | Ebos, Frank and Zolis, Paul<br>Math Matters 1, Nelson, Toronto, 1981<br>COMMENTS: Approved text. | 101 | S | | | X | |
| 510<br>E26p<br>Bk. 1 | Ebos, Frank and Zolis, Paul<br>Math Matters Plus, Bk 1, Nelson, Toronto, 1981.<br>COMMENTS: Supplementary portion of text. | 101 | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICHMENT |
|---|---|---|---|---|---|---|---|
| 510<br>E26t<br>Bk. 1 | Ebos, Frank and Zolis, Paul<br>Math Matters: Bk 1: Teachers Edition, Nelson, Toronto, 1982. | 101 | T | | | X | |
| *510<br>E26<br>Bk. 2 | Ebos, Frank and Zolis, Paul<br>Math Matters: Bk 2, Nelson, Toronto, 1983.<br>COMMENTS: Approved text. | 201 | S | | | X | |
| 510<br>E26p<br>Bk. 2 | Ebos, Frank and Zolis, Paul<br>Math Matters Plus, Bk 2, Nelson, Toronto, 1983.<br>COMMENTS: Supplementary portion of text. | | | | | | |
| 510<br>E26<br>Bk. 3 | Ebos, Frank and Zolis, Paul<br>Math Matters, Bk 3, Nelson, Toronto, 1987.<br>COMMENTS: Text for Math 301. | 301 | S | | | X | |
| *510.712<br>M38e<br>1981 | Exercises to Accompany Mathematics 101, Manitoba Education, Winnipeg, MB, 1981.<br>COMMENTS: Exercises keyed to objectives in Curriculum Guide. | 101 | T | | | X | |
| *510.712<br>M38re | Exercises to Accompany Mathematics 201, Manitoba Education, Winnipeg, MB, 1982.<br>COMMENTS: Exercises keyed to objective in Math 201 Guide. | 201 | T | | | X | |
| *510.712<br>M38se<br>1984 | Exercises to Accompany Mathematics 301, Manitoba Education, Winnipeg, MB, 1984.<br>COMMENTS: Exercises keyed to objectives in Guide. | 301 | T | | | X | |
| 510.246<br>G73 | Graham, Roy<br>Math Applications for Technical Trades, Copp Clark, Pitman, Toronto, 1983.<br>COMMENTS: General resource for automotive, electroncis, metals, woodwork related mathematics. | 201 | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 513.93<br>H34 | Haliburton Group<br>Contemporary Canadian Business Mathematics, Saunders, Toronto, 1977.<br>COMMENTS: This reference contains business topics; mark-ups, discount, compound interest, stocks, insurance, probability and is of use for all 01 courses. | 01 | S | | | | |
| 513.93<br>H34wb | Haliburton Group<br>Student's Workbook for Contemporary Canadian Business Mathematics, Saunders, Toronto, 1978.<br>COMMENTS: Reproducible worksheets and forms for business math; keyed to text for 201 as well. | 101 | T | | X | | |
| 510<br>M40 | Hayden, M. (et al)<br>Mathematics for Daily Use, Doubleday, Toronto, 1980.<br>COMMENTS: Practical resource for graphing, equations, geometry, scale drawings. | 101 | S | | | | |
| 510<br>K73 | Kravitz, Wallace and Brant, Vincent<br>Consumer Related Mathematics, Holt, Rinehart, Winston, Toronto, 1976.<br>COMMENTS: Statement of objectives for each section and ample number of problems are provided. Can be useful for 204 courses. | 101 | T/S | | | | |
| 510<br>K73t | Kravitz, Wallace and Brant, Vincent<br>Consumer Related Mathematics, Teacher Guide, Holt, Rinehart, Winston, Toronto, 1976. | 101 | T | | | X | |
| 513.2<br>K84 | Kwekkeboom, John D. (et al)<br>Consumer Education, General Publishing Co., Don Mills, ON, 1978.<br>COMMENTS: Students see general examples worked to completion, then are given exercises to practice the skill. Some topics are suitable for grade 9. | 101 | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICHMENT |
|---|---|---|---|---|---|---|---|
| 519<br>L95<br>1976 | Lyng, Merwin J. (et al)<br>Career Mathematics: Industry & Trades, Houghton-Mifflin, Markham, ON, 1976.<br>COMMENTS: General resource for the vocational options of 01 courses. | 201 | S | | | X | |
| 513.2076<br>P37 | Park, A. J. and Racknor, L.<br>Rapid Calculation and Estimating Skills, Copp Clark Pitman, Toronto, 1978.<br>COMMENTS: Reproducible worksheets on basic operations, with lessons on commission, discounts, profit and loss. | 101 | T | | X | X | |
| 510<br>P63<br>V. 1 | Pogue, Paul<br>Mathbase: Essential Math Skills, Copp Clark Pitman, Toronto, 1979.<br>COMMENTS: Supplementary resource with a skills review section. | 101 | S | | | X | |
| 510<br>P63<br>V. 2 | Pogue, Paul<br>Mathbase: Practical Skills & Applications, Copp Clark Pitman, Toronto, 1981.<br>COMMENTS: Supplementary resource for 104 as well. | 101 | S | | | X | |
| 510<br>M36 | Pogue, Paul<br>Math in Action 1, Copp Clark Pitman, Toronto, 1980.<br>COMMENTS: Supplementary general text with practical application. | 101 | S | | | X | |
| *513.93<br>R68<br>V. 1 | Rosenberg, R. R. (et al)<br>Business Mathematics, McGraw-Hill Ryerson, Toronto, 1977.<br>COMMENTS: Good resource for the business options of 01 courses. | 01 | T | | | | |
| 513.93<br>R68k<br>V. 1 | Rosenberg, R. R. (et al)<br>Teachers Key for Business Math Bk 1, McGraw-Hill Ryerson, Toronto, 1977. | 01 | T | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 513.93<br>R68<br>V. 2 | Rosenberg, R. R. (et al)<br>Business Mathematics, McGraw-Hill Ryerson, Toronto, 1977.<br>COMMENTS: Good resource for business options of 01 | 01 | S | | | | |
| 513.93<br>S49 | Seymour, John<br>Business Math Exercises, McGraw-Hill, Ryerson, NY, 1974.<br>COMMENTS: Suitable for 101 also. | 201 | T | | | X | |
| *510<br>S53<br>1980 | Shaw, B. R. (et al)<br>Mathematics Plus, Houghton-Mifflin, Toronto, 1980.<br>COMMENTS: A general resource in Consumer, business and technical applications (for 104 as well). | 01 | T | | | X | |
| 513.93<br>S52 | Slade, Samuel (et al)<br>Mathematics for Technical and Vocational Schools, John Wiley & Sons, NY, 1968.<br>COMMENTS: Numerous examples are included - many measures are imperial. | 201 | S | | | | |
| 510<br>S75wb<br>1980 | Stein, Edwin I.<br>Practical Applications In Mathematics, Allyn & Bacon, Boston, MA, 1980.<br>COMMENTS: Over one hundred exercises on a wide range of topics in business, consumer and beginning algebra. Some imperial units. | 101 | T | | X | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 513.93<br>W34 | Wallace, M. and Pitz, L.<br>Mathematics for Business with Machine Applications, Gage, Agincourt, ON, 1977.<br>COMMENTS: Resource for business options of all 01 courses. | 101 | S | | | | |
| 513.93<br>W34t | Wallace, M.<br>Mathematics for Business with Machine Applications - Teachers Manual, Gage, Agincourt, ON, 1978.<br>COMMENTS: Contains objectives for each unit, also suitable for 201. | 101 | S | X | | | |
| 513.93<br>W34w<br>V. 1 | Wallace, Mary<br>Mathematics for Business with Machine Applications: Workbook, Units 1-9. Gage, Agincourt, ON, 1978.<br>COMMENTS: Workbook for business applications. | 01 | S | X | | | |
| 513.93<br>W34<br>V. 2 | Wallace, Mary<br>Mathematics for Business with Machine Applications: Workbook 2, Units 11-13, 16-22. Gage, Agincrout, ON, 1978.<br>COMMENTS: Workbook for business applications | 01 | S | X | | | |
| 513.9<br>W34 | Wallace, Mary and Pitz, Larry<br>Mathematics for the Informed Consumer, Gage, Toronto, 1986.<br>COMMENTS: This general text contains topics from all 01 courses with up-to-date tables and examples. | 01 | S | X | | X | |
| 513.9<br>W34wb | Wallace, Mary<br>Mathematics for the Informed Consumer, Workbook, Gage, Toronto, 1986.<br>COMMENTS: Workbook is keyed to the text. | 01 | S | | | | |
| 513.9<br>W34wbt | Wallace, Mary<br>Mathematics for the Informed Consumer, Workbook-Teacher Edition, Gage, Toronto, 1986.<br>COMMENTS: Answers to the workbook. | 01 | T | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>W54<br>Bk. 1 | Wiltshire, David<br>Fractions, Decimals, and Percent - a review, Motivation Development Inc., Bishop, CA, 1982.<br>COMMENTS: Workbook format with short explanations and rules. First of a nine book series. Books are 50 pages long. | 101 | S | | | X | |
| 510<br>W54<br>Bk. 2 | Wiltshire, David<br>Metric and U.S. Systems of Measurement, Motivation Development Inc., Bishop, CA, 1982.<br>COMMENTS: Limited number of problems to be done. | 101 | S | | | X | |
| 510<br>W54<br>Bk. 3 | Wiltshire, David<br>Practical Uses for Formulas and Equations, Motivation Development Inc., Bishop, CA 1982.<br>COMMENTS: Imperial measure in some problems. | 101 | S | | | X | |
| 510<br>W54<br>Bk. 4 | Wiltshire, David<br>The Math of Geometric Shapes and Objects, Motivation Development Inc., Bishop, CA, 1982.<br>COMMENTS: Good for Geometry section of 101. | 101 | S | | | X | |
| 510<br>W54<br>Bk. 5 | Wiltshire, David<br>Machine Mathematics (Gears, Pulleys, Levers), Motivation Development Inc., Bishop, CA, 1982.<br>COMMENTS: This module would be useful in grade 9 science. | 101 | S | | | X | |
| 510<br>W54<br>Bk. 6 | Wiltshire, David<br>Carpentry Math, Motivation Development Inc., Bishop, CA,1982. | 201 | S | | | X | |
| 510<br>W54<br>Bk. 7 | Wiltshire, David<br>Working with Electric Circuits, Motivation Development Inc., Bishop, CA, 1982. | 201 | S | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>W54<br>Bk. 8 | Wiltshire, David<br>Math for Shoppers and Salespeople, Motivation Development Inc., Bishop CA, 1982.<br>COMMENTS: Good applications for 104 as well. | 101 | S | | | X | |
| 510<br>W54<br>Bk. 9 | Wiltshire, David<br>Math for Employment and Business, Motivation Development Inc., Bishop, CA, 1982. | 101 | S | | | X | |
| 510<br>W54t | Vocational Math Series. Instructor Manual and Answer Key, Motivation Development Inc., Bishop, CA, 1982.<br>COMMENTS: Answers to review problems and final exams for each booklet are provided. | ol | T | | | X | |

MATERIALS 104 204 304

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| *510<br>B33<br>Bk. 1 | Baker, Trudy and Cutting, Robert<br>Math You Need Bk 1, Nelson, Toronto, 1981.<br>COMMENTS: Approved textbook in workable form. | 104 | S | | X | | |
| *510<br>B33<br>Bk. 2 | Baker, Trudy and Cutting, Robert<br>Math You Need Bk 2, Nelson, Toronto, 1982.<br>COMMENTS: Approved textbook; topics are included for 104 and 204. | 104 | S | | X | | |
| 510<br>B33t | Baker, Trudy and Cutting, Robert<br>Math You Need, Bk 1 & 2: Teachers Guide with Answers, Nelson, Scarborough, 1982. | | | | | | |
| 510.712<br>B62 | BO-CEC Math Resource Guide, U.S. Office of Education, Washington, D.C.<br>COMMENTS: Fourteen units that focus on an occupational setting and the mathematics necessary in that setting. | 04 | T | | | | |
| *513<br>K33<br>V. 1 | Kahn, C. and Hanna, J. B.<br>Money Makes Sense, Pacemaker Practical Arithmetic Series, Copp Clark Pitman, Toronto, 1984.<br>COMMENTS: A very elementary approach to money. Most of the exercises involving counting coins and bells. | 104 | S | | X | | |
| *513<br>K33<br>V. 2 | Kahn, C. and Hanna, J. B.<br>Using Dollars & Sense, Pacemaker Practical Arithmetic Series, Copp Clark Pitman, Toronto, 1984.<br>COMMENTS: Second in the series, includes making change. | 104 | S | | X | | |
| *513<br>K33<br>V. 3 | Kahn, C. and Hanna, J. B.<br>Working Makes Sense, Pacemaker Practical Arithmetic Series, Copp Clark Pitman, Toronto, 1984.<br>COMMENTS: Third in the series, includes shopping, and banking. | 104 | S | | X | | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 513<br>K33t<br>1977 | Kahn, C. and Hanna, J. B.<br>Teacher Manual: Money Making Sense, Using Dollars and Sense, Working Makes Sense, Copp Clark Pitman, Toronto, 1977.<br>COMMENTS: You will need this to accompany the Pacemaker Arithmetic Series - it has the answers. | 104 | T | | | X | |
| 513.9<br>L35 | Lange, Walter, (et al)<br>Consumer Mathematics, Houghton-Mifflin, Toronto, 1985.<br>COMMENTS: A general resource on consumer topics. | 104 | S | | | | |
| 510.76<br>M36 | Mastering Essential Mathematics Skills, Doubleday, Toronto, 1981<br>COMMENTS: APPROVED TEXT. | 104 | S | | X | | |
| 510.76<br>M36t | Mastering Essential Mathematics Skills, Teacher Edition, Doubleday, Toronto, 1982. | 104 | T | | | X | |
| 510<br>N67 | Norrie, Alexander L.<br>Real Life Math, Scholastic-Tab, Richmond Hill, 1980.<br>COMMENTS: Arithmetic skills practiced through applications to the job, money management, energy savings and leisure. | 104 | T | X | | | |
| 510<br>M38gc | Price, J., (et al)<br>Mathematics For the Real World, Merrill, Toronto, 1979.<br>COMMENTS: Approved text. | 104 | S | | | X | |
| 510<br>M38gct | Price, J., (et al)<br>Mathematics For the Real World, Teacher's Guide, Answer Keys, Tests, Merrill, Toronto, 1979. | 104 | T | | | X | |

| Call # | Resource | LEVEL | TARGET | PROBLEM SOLVING | ACTIVITY | ANSWER | ENRICH-MENT |
|---|---|---|---|---|---|---|---|
| 510<br>M38et<br>1982 | Price, J., (et al)<br>Teacher's Guide and Tests for Mathematics for Everyday Life,<br>Merrill, Columbus, OH, 1982 | 04 | T | | | | |
| 510<br>E94<br>V. 1 | Wiggan, Lorna, (et al)<br>Everyday Math 1, Learnxs Press, Toronto, 1980.<br>COMMENTS: High interest-low ability materials. Conceptual level up to grade 7, includes estimation skills, decimals, percents. | 104 | T | | X | X | |
| 510<br>E94<br>V. 2 | Wiggan, Lorna, (et al)<br>Everyday Math 2, Learnxs Press, Toronto, 1980.<br>COMMENTS: High interest-low ability conceptual level up to grade 7. Topics include measurement, estimation, time, temperature. | 104 | T | | X | X | |
| 510<br>E94t | Wiggan, Lorna, (et al)<br>Everyday Math: Notes & Answers, Learnxs Press, Toronto, 1980.<br>COMMENTS: Notes and answers for Book 1 and 2. | 104 | T | | X | X | |
| 513.9<br>Z54 | Zimmer, Ed<br>Looking at Mathematics for the Consumer, Gage, Toronto, 1984.<br>COMMENTS: A very good student module which contains objectives, numerous examples and practical applications. | 04 | S | X | X | | |

APPENDIX A

MATHEMATICS JOURNALS available at the Library NOT FOR LOAN.
But if you happen to be visiting 1181
Portage Avenue...

Abacus

Arithmetic Teacher

ERIC clearing house for science, mathematics and environmental education

Journal for research in mathematics education

Manitoba mathematics teacher

Mathematical Log

Mathematics in school

Mathematics teacher

Mathematics teaching

NCTM Newsletter

Ontario Mathematics Gazette

School Science & Mathematics

APPENDIX B

MATHEMATICS
16 MM. FILMS (GRADES K - 12)

(Teachers should refer to film catalogue for annotations)

| | FILM BOOKING NUMBER |
|---|---|
| As the World turns metric | 2845 |
| Addition of rational numbers | 2083 |
| Between rational numbers | 3196 |
| The Biggest rectangle | 2071 |
| Clock talk | 2508 |
| Conic section | 3158 |
| Decimal equivalents for fractions | 2070 |
| Discovery numerals | 3049 |
| The Decision | 0086 |
| Developing the general equation of the circle | 2211 |
| Developing of our decimal numeration system | 0390 |
| Dividing with decimals | 3403 |
| Dividing with fractions: missing factor method | 3400 |
| Dividing with fractions: reciprocal method | 2067 |
| Donald in Mathmagic Land | 0525 |
| Equations in algebra | 2818 |
| Exploitation of errors | 3406 |
| Games | 2904 |
| Graphing inequalities | 2072 |
| Hidden treasure | 3678 |
| How big is big? | 3618 |
| How heavy is heavy? | 1764 |
| How hot is hot? | 1346 |
| How long is long? | 1765 |
| The idea of numbers and introduction to the number systems | 1544 |
| Industry goes metric | 3047 |
| The Kilogram: an introduction to the metric system | 0036 |
| The Liter: an introduction to the metric system | 0065 |
| The Meter: an introduction to the metric system | 0300 |
| Meters, liters, and kilograms, or, How to Measure water with a stick: an introduction to the metric system | 2218 |

Metric---------- 2217
Metric measurement I: Measurement and why we need a standard unit---------- 2272
Metric measurement II: what is the metric system and how is it used?---------- 2271
Money, money, money---------- 2125
Moving to metric---------- 2245
Multiplying with fractions: distributivity---------- 3680
Notes on a Triangle---------- 0221
Possibly so. Pythagoras!---------- 0318
Predicting through samples---------- 1541
The probabilities of zero and one---------- 3156
Probability---------- 3412
Product of two negative numbers---------- 3404
Proportion at work---------- 1543
Ratio---------- 3368
Relating sets to numbers---------- 2038
Rounding---------- 3402
Sets, crows and infinity---------- 3042
Similar triangles---------- 4109
Similar triangles in use---------- 2594
Slide, flip, turn - an exercise in motion geometry---------- 3909
Solving pairs of equations (pirates)---------- 3405
Ten the magic number---------- 2517
The Calendar - days, weeks, months ---------- 1946
Think metric!---------- 1772
Thinking in sets---------- 3154
Time, lines and events---------- 1781
Water---------- 2958
The Weird number---------- 1498

APPENDIX C
VIDEO CASSETTES

| SERIES | TITLE | LOAN NUMBER | DUBBING NUMBER | TIME | GRADE LEVEL |
|---|---|---|---|---|---|
| Math Makers (TVO) | Angles | VR/372.73/M38/V.18 | VT-89 | 15 min. | 4 - 9 |
| Math Makers " | Area | " " V.13 | VT-75 | 15 min. | 4 - 9 |
| Math Makers " | Capacity | " " V.11 | VT-54 | 15 min. | 4 - 9 |
| Math Makers " | Decimals | " " V.5 | VT-31 | 15 min. | 4 - 9 |
| Math Makers " | Division | " " V.3 | VT-26 | 15 min. | 4 - 9 |
| Math Makers " | Fractions | " " V.24 | VT-104 | 15 min. | 4 - 9 |
| Math Makers " | Graphing | " " V.8 | VT-37 | 15 min. | 4 - 9 |
| Math Makers " | Length | " " V.22 | VT-100 | 15 min. | 4 - 9 |
| Math Makers " | Line Segments | " " V.2 | VT-25 | 15 min. | 4 - 9 |
| Math Makers " | Mass | " " V.10 | VT-53 | 15 min. | 4 - 9 |
| Math Makers " | Math Review 1 | " " V.25 | VT-106 | 15 min. | 4 - 9 |
| Math Makers " | Math Review 2 | " " V.26 | VT-116 | 15 min. | 4 - 9 |
| Math Makers " | Money | " " V.12 | VT-70 | 15 min. | 4 - 9 |
| Math Makers " | Multiplication | " " V.1 | VT-24 | 15 min. | 4 - 9 |
| Math Makers " | Number Properties | " " V.23 | VT-102 | 15 min. | 4 - 9 |
| Math Makers " | Patterns | " " V.20 | VT-97 | 15 min. | 4 - 9 |
| Math Makers " | Perimeter | " " V.15 | VT-81 | 15 min. | 4 - 9 |
| Math Makers " | Problem Solving | " " V.7 | VT-35 | 15 min. | 4 - 9 |
| Math Makers " | Ratio | " " V.9 | VT-44 | 15 min. | 4 - 9 |

| | | | | | |
|---|---|---|---|---|---|
| Math Makers (TVO) | Symmetry | VR/372.73/M38/V.21 | VT-99 | 15 min. | 4 - 9 |
| Math Makers " | Temperature | " " V.6 | VT-34 | 15 min. | 4 - 9 |
| Math Makers " | Tesselations | " " V.19 | VT-94 | 15 min. | 4 - 9 |
| Math Makers " | Transformations | " " V.4 | VT-29 | 15 min. | 4 - 9 |
| Math Makers " | Three Dimensional Solids | " " V.16 | VT-83 | 15 min. | 4 - 9 |
| Math Makers " | Volume | " " V.14 | VT-79 | 15 min. | 4 - 9 |
| Manitoba Education | Putting It In Perspective | VR/516.6/P88 | VT-413 | 19 min. | 10 |
| Manitoba Education | Reading Mathematics: The Inside Track | VR/510.148/R41 | VT-50 | 20 min. | 10 - 12 |
| Manitoba Education | What Every Girl Should Know About Maths | VR/507.12/W43 | VT-731 | 16 min. | 7 - 12 |
| Manitoba Education | Why Go Metric | no loanable copy | VT-47 | 23 min. | 4 - 9 |
| Money & Banking in Canada | Money: As Basic as Language | VR/332.1/M65/V.1 | VT-618 | 14 min. | 7 - 12 |

## APPENDIX D

## TEACHER RECOMMENDED MATERIALS

The following materials have been identified by teachers for use in the classroom. These materials have not been reviewed, and some of the bibliographic information was not supplied. We thank the teachers for their cooperation.

| AUTHOR | TITLE | PUBLISHER | |
|---|---|---|---|
| | Success in Math | Motivation Development Inc. | |
| | Mathematics for Today | | |
| | Check and double check | Scholar's Choice | |
| | Math Warm ups | Dale Seymour | |
| | Metric Style Guide | Council of Ministries of Ed | Ontario |
| | Mira Math Activities for Junior High | Mira Math Co | Ontario 1973 |
| | Problem of the Week | Dale, Seymour | wall chart |
| | Think Lab | | |
| | Basic Mathematics | Schaum's Outline | |
| | Elementary Mathematics | Schaum's Outline | |
| | Elementary Mathematics | Schaum's Outline | |
| | First Year College Mathematics | Schaum's Outline | |
| | Plane Geometry | Schaum's Outline | |
| | Trigonometry | Schaum's Outline | |
| Anderson | 53 Metric Flashcards | J. Weston Walch | |
| Baur & Pigford | A survival guide for Jr High/mid mat | | |
| Bergamini | Mathematics | Time Incorporated | |
| Bernstein, A. L. | Trouble shooting math skills | Holt, Rinehart Winston of Canada | |
| Bila (et al) | Core Math | Worth | |
| Bitinger Keedy | Essential Math | Addison-Wesley | |
| Brandes, L. G. | Math can be fun | Weston Walch | |
| Brandes, L. G. | Math Wizard | Weston Walch | |
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